CITY OF MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY REPORT JACKSON COUNTY, OREGON



Prepared for



The City of Medford Planning Department

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1. INTRODUCTION

SWCA Environmental Consultants (SWCA) conducted a local wetlands inventory (LWI) for the Urban Reserve portions that are being considered for inclusion in the City of Medford's Urban Growth Boundary (UGB). An LWI is a systematic survey of a large geographic area to locate and map wetlands, classify them by type, and evaluate their function and value. This study builds upon an earlier LWI conducted for the city (Wetland Consulting 2002).

This report documents the LWI for the City of Medford urban reserve study area in Jackson County, Oregon. The inventory was conducted according to standards and guidelines outlined in the Department of State Lands (DSL) Oregon Administrative Rules (OAR) 141-086-0180 through 141-086-0390 (Appendix A). Inventory methods included a mixture of on-the-ground surveys and remote sensing. A list of abbreviations used in this study and selected definitions are included in Appendix B. The LWI wetland vegetation list as well as the data forms for each sample plot are provided in Appendix C. Appendix D provides the wetland summary sheets. The *Oregon Freshwater Wetland Assessment Methodology* (OFWAM) wetland characterization questions, function answer sheets, and function and condition summary sheets are provided in Appendix E. Maps of the LWI are provided in Appendix F, and staff qualification are in Appendix G. Appendix H provides an example landowner letter explaining the project and seeking permission for study area access. Appendix I includes wetland delineations that were concurred with by DSL during and after this report was prepared.

SWCA determined the location and size of wetlands (with a required minimum threshold of 0.5 acre) throughout the study area, and grouped these wetlands into assessment units according to OFWAM guidelines. The quality and condition of assessment units were determined by applying the OFWAM and then determining whether wetlands were locally significant by applying the criteria outlined in OAR 141-86-300 through 141-86-350. This report presents the results of the wetland inventory and assessment as well as the identification of streams in the study area. Fieldwork took place in April and July 2015.

2. GENERAL DESCRIPTION OF THE STUDY AREA

The urban reserve study area comprises 6,428 acres of urban reserve areas in Townships 36, 37 and 38 South, Ranges 1 and 2 West, Jackson County, Willamette Meridian, Oregon. The study area comprises 11 labeled "MD" units surrounding the City of Medford's existing UGB in all cardinal directions except to the northwest. Study units MD-1 through MD-9 total 4,628 acres, and parklands (MD-Ps) Chrissy and Prescott total an additional 1,800 acres along the foothills on the eastern edge of the study area. Background maps for this project are included in Appendix F. (Figure A shows the project location, Figure B is an index map for the Figure Series C–E, Figure Series C shows the soil mapping, Figure Series D shows the topographic mapping, Figure Series E shows the National Wetland Inventory [NWI] and Jackson County hydrography maps, Figure Series F includes the LWI maps, and Figure Series G is a poster-sized series of the LWI maps).

Watershed-level OFWAM questions relating to land use and water quality are addressed on the wetland characterization answer sheets contained in Appendix E.

2.1. Landscape Setting, Topography, and Land Use

The City of Medford is in Jackson County, Oregon, southeast of Grants Pass, northwest of Ashland, along Interstate 5 and approximately 30 miles north of the California/Oregon border. Medford lies within the Klamath Mountain physiographic province (Franklin and Dyrness 1988), a complex of variously formed ranges with rugged, deeply dissected terrain. Medford is in the Bear Creek Valley and is bordered by the Siskiyou Mountains to the west and the Cascade Range to the east. Most of the study area is relatively flat and is on the valley bottom floor (see Figure Series D in Appendix F). Study area units to the east are on the foothills of the Cascade Mountains.

The existing City of Medford UGB includes 18,069 acres in which there are extensive commercial and residential developments. Within the urban reserve study area, large undeveloped areas dominate, ranging in elevation from 1,280 feet to 3,580 feet above sea level. Lands within the northern and southern portions of the study area are mostly grass, pasture, or abandoned orchards converted to pasture, many of which receive routine flood-irrigation throughout the irrigation season (April–October). Also included in the study area are extensive paved roads, light industrial use, residential use, and recreational use including the Centennial Golf Club and Prescott Park. Coker Butte and Roxy Ann Peak are located in the eastern portion of the study area.

Twenty-seven types of hydric and hydric-inclusion soils are mapped in the study area (see section 2.5). A number are characterized by high clay content, low water infiltration rates, and poor internal drainage.

2.2. Watershed

According to Appendix H of the OFWAM, the study area is located in the Rogue drainage basin, which is one of 18 basins defined by the Oregon Water Resources Department. The City of Medford, and the majority of the study area is in the Middle Rogue unit of the Rogue River drainage basin (4th-field/Hydrological Unit Code [HUC] 8, 17100308). A small eastern portion of the study area extends into the Upper Rogue HUC8, 17100307. Within the Middle Rogue unit of the study area are two 6th-field/HUC12 watershed boundaries: Whetstone-Rogue River in the north (171003080202); and Larson Creek-Bear Creek in the south (171003080110). Within the Upper Rogue unit of the study area is the Lower Antelope Creek HUC12 (171003070811). Portions of eight local drainage basins are also present in the study area. Mapping of these basins was derived from the 2002 City of Medford LWI report (Wetland Consulting 2002) and provides a finer-scale watershed boundary for the dispersed study area units (See index Figure F, Appendix F). A key to the five relevant local drainage basin abbreviations used for the study is provided in Table 1.

Drainage Basin Code	Local Drainage Basin Name	
MWC	Midway Creek drainage basin (also known as Upton Slough)	
BCS	Bear Creek South drainage basin	
DRC	Dry Creek	
LSC	Larson Creek drainage basin	
LPC	C Lone Pine Creek drainage basin	

Table 1. Key to Drainage Basin Codes

Swanson Creek, Larson Creek, and Bear Creek are the dominant hydrological features in the study area. Swanson Creek flows to Whetstone Creek north of Medford. Bear Creek flows northwest to the Rogue River and receives flow from Larson Creek, Lazy Creek, and a number of unnamed streams that cross the study area. Headwaters for Midway Creek (also known as Upton Slough) are located in the study area; however, most of the creek is located within the previously studied UGB. Gore Creek and Crooked Creek are Bear Creek tributaries located southwest of the Medford city limits; they run close to, but outside of, the study area.

Most ponds in the study area are artificial and are most likely maintained for farm and stock watering, and some residential use.

Many streams in the study area have been modified through channelization, underground piping, removal of riparian vegetation, and installation of water storage ponds. Medford Irrigation District, Rogue River Irrigation District, and Talent Irrigation District maintain an extensive network of irrigation and drainage ditches and canals throughout much of the study area, many of which connect with natural streams. Irrigation features of significance include the Phoenix Canal in the southwest and the East Lateral Canal in the east.

Medford Irrigation District-stored waters include Fourmile Reservoir, Fish Lake, Hyatt Lake, Howard Prairie Lake, and Emigrant Lake (Medford Irrigation District 2015). Water delivery to users is achieved through the use of stream channels, irrigation canals, and ditches. The Medford Irrigation District's 2015 drought plan notes that irrigation water storage for 2015 is at 42% of full, with users facing a 30% usage reduction goal so that irrigation can continue through to late summer (Medford Irrigation District 2015). Flood-irrigation is a common practice in the study area and is evidenced by distinctive seasonal flood signatures on historical aerial imagery.

2.3. Climate, Precipitation, and Growing Season

Medford's climate is characterized by cool winters and hot summers. Average winter temperature is 40 degrees Fahrenheit (°F) with an average daily minimum of 32°F. Snowfall averages 4.8 inches annually. Summer temperatures average 70°F, with an average daily maximum of 87°F. Rainfall averages 18 inches per year (National Weather Service 2015). Summer rainfall is light, with more frequent rains from late fall through spring. Based on the wetlands climate analysis (WETS) table for the Medford Rogue Valley Airport, it is estimated that there is a 50% probability that the growing season begins on March 25 and ends on November 10 (lasting 230 days), for a temperature threshold of 28°F (Natural Resources Conservation Service [NRCS] 2015a). The *Corps of Engineers Wetlands Delineation Manual*, hereafter the 1987 Manual (Environmental Laboratory 1987) defines "growing season" as the portion of the year when soil temperature (measured 20 inches below the surface) is above biological zero (5 degrees Celsius or 41°F). This period "can be approximated by the number of frost-free days" (Environmental Laboratory 1987). Estimated starting and ending dates for the growing season are based on 28°F air temperature thresholds at a frequency of 5 years in 10.

During the month of April, the National Weather Service noted that temperatures remained on the cooler side of normal. Cold, wet fronts moved through the area during fieldwork on the 7th, and again on the 13th, after which high temperatures returned (as much as 10-15 degrees above normal). A high pressure system moved in at the end of April, triggering warmer than normal temperatures once again.

Table 2 provides a summary of rainfall measured at the Medford airport during the 3 months preceding fieldwork. Using the NRCS method of assessment, rainfall for the prior period was at the low end of normal.

Prior Month (most recent first)		t recent first) Percentile (inches)			Condition Value (1=dry, 2=normal,	Month Weight	Multiply Previous Two	
		30th 70th		(inches)		3=wet)		Columns
1st	April	0.82	1.59	0.6	Dry	1	3	3
2nd	March	1.21	2.23	1.45	Normal	2	2	4
3rd	February	1.16	2.56	3.20	Wet	3	1	3
							Sum*	10

Table 2. Assessed Rainfall for the Preceding 3-month Period, Medford Airport Weather Station

* Sum of 6–9 = Drier than Normal, Sum of 10–14 = Normal, Sum of 15–18 = Wetter than Normal.

2.4. Sensitive Species

The Oregon Biodiversity Information Center (ORBIC) conducted a data system search on behalf of SWCA for rare, threatened, and endangered plant and animal records occurring within 2 miles of the study area on April 2, 2015 (Table 3). The Agate Desert Preserve and the Whetstone Savanna Preserve are within 2 miles of the study area and therefore account for a significant number of the potential sensitive species listed by ORBIC.

Table 3 Pare Threatened	and Endangered Flor	a and Eauna Records	within 2 Miles of the Study Are	00
Table J. Nale, Theatenet	, and Endangered Fior	a anu rauna necolus	within z miles of the Study Are	зa

Common Name	Scientific Name	Federal/State Status
Amphibians		
Foothill yellow-legged frog	Rana boylii	SOC/SC and SV
Arthropods		
Franklin's bumblebee	Bombus franklini	SOC/
Vernal pool fairy shrimp	Branchinecta lynchi	LT/
Birds		
Grasshopper sparrow	Ammodramus savannarum	/SV
Lewis's woodpecker	Melanerpes lewis	SOC/SC
Tricolored blackbird	Agelaius tricolor	SOC/
Fish		
Chinook salmon (southern Oregon//northern California coasts ESU, fall run)	Oncorhynchus tshawytscha	/SV
Coho salmon (southern Oregon//northern California coasts ESU)	Oncorhynchus kisutch	LT/SV
Steelhead (Klamath Mountains Province ESU summer run, winter run)	Oncorhynchus mykiss	/SC and SV
Mammals		
Long-legged myotis	Myotis volans	SOC/SV
Reptiles		
California mountain kingsnake	Lampropeltis zonata	SOC/SV
Western pond turtle	Actinemys marmorata	SOC/SC
Vascular Plants		
Agate Desert lomatium/desert parsley	Lomatium cookii	LE/LE
Bellinger's meadow-foam	Limnanthes floccosa ssp. bellingeriana	SOC/SC
Big-flowered wooly meadow-foam	Limnanthes pumila ssp. grandiflora	LE/LE
Coral seeded allocarya/popcorn flower	Plagiobothrys figuratus ssp. corallicarpus	SOC/SC
Gentner's fritillaria/fritillary	Fritillaria gentneri	LE/LE
Southern Oregon buttercup	Ranunculus austrooreganus	/SC

Notes: ESU = Evolutionarily Significant Unit; SOC = species of concern; LT = listed threatened; LE = listed endangered; SC = state candidate; SV = state vulnerable.

Essential salmonid habitat (ESH) mapping for the study area was sourced from the DSL (2010) and includes Bear Creek, Larson Creek, and Lazy Creek.

2.5. Water Quality

Water quality data were sourced from the Oregon Department of Environmental Quality's (DEQ's) *1988 Statewide Assessment of Nonpoint Sources of Water Pollution* (DEQ 1988), and subsequent updates. The Oregon DEQ's 2012 integrated report and 303(d) database were also searched. Bear Creek is water quality–limited for temperature, sediment, and bacteria, and Larson Creek is water quality–limited for temperature and dissolved oxygen. Additional information was gathered from the Oregon Explorer Website.

2.6. Soils

Clay-textured soils are common on the alluvial fans and valley floor in areas surrounding Medford. These soils undergo considerable expansion and contraction with wetting and drying (Franklin and Dyrness 1988). Hydric soils, soils with hydric inclusions, and non-hydric soils mapped within the study area (NRCS 2012) are listed in Table 4 and shown on Figure Series C in Appendix F.

Hydric Soils				
139A	Padigan clay, 0%–3% slopes			
141A	Phoenix clay, 0%–3% slopes			
35A	Cove clay, 0%–3% slopes			
76A	Gregory silty clay loam, 0%-3% slopes			
Soils with Hydric I	nclusions			
6B	Agate-Winlo complex, 0%–5% slopes			
17C, 17E	Brader-Debenger loams, 1%–15%,15%–40% slopes			
23A	Camas-Newberg-Evans, 0%–3% slopes			
27B, 27D	Carney clay, 0%–3%, 5%–20% slopes			
28D, 28E	Carney cobbly clay, 5%–20%, 20%–35% slopes			
30E	Carney-Tablerock association, 20%–35% slopes			
33A, 33C	Coker clay, 0%–3%, 3%–12% slopes			
34B	Coleman loam, 0%–7% slopes			
43B, 43D	Darow silty clay loam, 1%-5%, 5%-20% slopes			
44E	Debenger-Brader loams, 15%-40% slopes			
61A	Foehlin gravelly loam, 0%–3% slopes			
112F	McMullin-Medco complex, 12%-50% slopes			
113E, 113G	McMullin-Rock outcrop complex, 3%-35%, 35%-60% slopes			
114G	McNull loam, 35%-60% slopes			
125F	Medco-McMullin complex, 12%–50% slopes			
127A	Medford silty clay loam, 0%-3% slopes			
158B	Ruch gravelly silt loam, 2%–7% slopes			

Table 4. Hydric Soils, Soils with Hydric Inclusions, and Non-hydricSoils in the Study Area (by map unit number and name)

Non Hydric Soi	ils
81G	Heppsie clay, 35%–70% slopes
82G	Heppsie-McMullin complex, 35%–70% slopes
146	Pits, gravel
186H	Tablerock-Rock outcrop complex, 35%–110% slopes

Table 4. Hydric Soils, Soils with Hydric Inclusions, and Non-hydricSoils in the Study Area (by map unit number and name)

* This table serves as a key for Figure Series C, Appendix F.

Hydric soils mapped in the study area are described as follows (NRCS 2015b):

- **Cove clay** (map unit 35A) is a deep, poorly drained soil on floodplains that formed in mixed alluvium from sedimentary and basic igneous rocks. The soil matrix color between 0 and 16 inches below ground surface (bgs) is typically very dark gray (10YR 3/1), with many fine distinct yellowish brown and dark reddish brown masses of iron accumulation. A seasonal water table occurs within 1 foot of the surface from December through June.
- **Gregory silty clay loam** (map unit 76A) is a deep, poorly drained soil on stream terraces that formed in recent alluvium from sedimentary and basic igneous rocks. The soil matrix color between 0 and 29 inches bgs is typically very dark grayish brown (10YR 3/2), with common distinct mottles occurring below 18 inches. A seasonal water table occurs within 1 foot below ground surface from December through May.
- **Padigan clay** (map unit 139A) is a very deep, poorly drained soil on alluvial fans and in basins that formed in clayey alluvium weathered from tuffs, breccias, and andesite. The soil matrix color between 0 and 25 inches bgs is usually very dark gray (2.5Y N3/0). The seasonal water table varies from 1 foot above to 0.5 foot below ground surface from November through May.
- **Phoenix clay** (map unit 141A) is a moderately deep, poorly drained soil on alluvial fans that formed in alluvium and colluvium from clayey sediments. The soil matrix color between 0 and 12 inches bgs is usually dark gray (10YR 4/1). A seasonal water table occurs within 0.5 feet below ground surface from December through May.

2.7. Vegetation

Historically, natural vegetation typical to the area includes oak woodland with a grass understory in drier areas, and hardwood riparian forests made up of cottonwood (*Populus* sp.), willow (*Salix* sp.), and alder (*Alnus* sp.) (Franklin and Dyrness 1988). Native vegetation communities in the Medford urban reserve areas have been altered by farming, grazing, and urban and light industrial development activities. Remnant native plant communities include Oregon white oak savanna on Roxy Ann Peak and on the foothills east of the study area, and riparian areas along Swanson Creek, Bear Creek, and in some locations along Larson Creek. Observed plant species associated with Medford urban reserve wetlands are listed in Table C1, Appendix C.

3. WETLAND INVENTORY PROCESS AND METHODOLOGY

3.1. Public Involvement

The City of Medford organized the public outreach efforts for this project. Letters explaining the project and seeking permission for study area access (Appendix H) were sent to all property owners whose tax lots 1) intercepted hydric soil layers and/or NWI mapped wetlands and streams, 2) showed a potential wetland signature in aerial photographs, or 3) provided key access to tax lots identified as having potential wetlands. Of the 265 private property parcels requested for access, 53 were accessed for survey; this number includes city-owned parcels and excludes parcels that were visually confirmed from adjacent access. The overall permission rate was 28%.

Public meetings were held in the Medford Carnegie Building, 413 West Main Street on March 18 and July 1, 2015, each from 5 to 7 p.m. A short overview of the LWI process was presented at the initial March 18 meeting. At the final public meeting on July 1, the draft results of the LWI were presented. Most of the time at each meeting was used to address questions from local landowners and the public. For each meeting, approximately 20 members of the public were in attendance.

3.2. Inventory Methodology

Wetlands are those areas that are inundated or saturated by surface water or groundwater 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.

The OARs outline that both on-site and off-site inventory methods are employed to determine if a site contains wetland soils, hydrology, and vegetation. The methodology used for determining the presence of wetlands followed the 1987 Manual (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers' Wetland Delineation Manual for the Western Mountains, Valleys, and Coast Region, (Version 2.0)* (USACE 2010), as approved by both the USACE and DSL.

Following the technical approach outlined in the OARs, SWCA used existing data to build base maps to support the initial screening for potential wetlands in the study area, and to support the on- and off-site wetland determination work. Base maps included comprehensive hydrography data sourced from the NWI, Jackson County, the City of Medford, and DSL. Base maps also included aerial imagery, NRCS mapped hydric soils, Federal Emergency Management Agency (FEMA) 100-year floodplains, 2-foot contours and hill-shade derived from light detection and ranging (LiDAR) data, tax lots, and study area boundaries. Refer to Table 5 in section 3.4 for a complete list of base map resources used.

Following the approach described above, identified "potential" wetlands were defined as areas with mapped hydric soils, previously mapped wetland features (NWI, county, city, or DSL data), and aerial imagery that suggest the presence of wetland vegetation and/or saturation, ponding, or ditching. Additionally, aerial imagery layers were reviewed to interpret wetland types where visual confirmation was not possible.

County- and city-level hydrography data were reviewed and confirmed to incorporate NWI data and to provide more detailed local data (see Figure Series E, Appendix F). Where there were multiple previously mapped wetlands in one area, the most recent data layer was used. Where access was granted, available hydrography data were confirmed visually, or by collecting sample plot data. Over the course of the field surveys, efforts were made to ground-truth aerial interpretation wherever possible.

Dominant Cowardin (Cowardin et al. 1979) and hydrogeomorphic (HGM; Adamus 2001) classes and subclasses were identified for all mapped wetlands. Appendices B3 and B4 provide descriptions of Cowardin and HGM system classes. Observed water regime and special modifier codes are included in the Cowardin classification if they are known or could be approximated based on desktop review. For wetlands observed or estimated to contain multiple Cowardin classes greater than 0.25 acre in size, each classification was mapped and labelled as a separate wetland.

3.2.1. Off-Site Inventory Procedures

Where site access was not granted, wetlands were identified based on 1) the presence of wetland (hydrophytic) vegetation as documented in aerial photographs, or by binoculars from off-site viewing locations; 2) an aerial signature showing saturation or ponding (a hydrologic signature); 3) the presence of mapped hydric soils; or 4) the presence of a mapped wetland or water feature (referencing NWI, Jackson County, City of Medford hydrologic data, and Wetland Delineations [WD's] previously submitted to DSL [existing data]). Off-site viewing locations included roads, public property, commercial parking lots, and private tax lots with access granted.

In accordance with DSL guidelines, off-site wetlands larger than 0.5 acre (approximately 148×148 feet) were mapped as polygons. Off-site wetlands less than 0.5 acre were labelled with a Probable Wetland (PW) point or in some cases mapped as a polygon if a previous delineation boundary was available in the existing data.

In many cases where existing data were utilized, visual confirmation of wetlands and waters was not possible and therefore the dataset was not altered or refined. As a result, there are locations where mapping data do not accurately align with aerial imagery or LiDAR data interpretations.

3.2.2. On-Site Inventory Procedures

Field surveys were conducted April 6–9 and 20–23, 2015, and selected sites were revisited on July 1, 2015. Where property access permission was granted, each potential wetland was verified with at least one sampling plot that best characterized the feature. Vegetation, soils, and hydrology were documented on standard USACE regional wetland determination data forms, additional notes were recorded in field log books, and each wetland was photographed. SWCA used a Trimble GeoExplorer XT global positioning system (GPS) unit to record the location of each sampling plot in the field. Field-collected data were downloaded into the LWI geodatabase using the industry standard Esri ArcGIS software, version 10.1.

In accordance with DSL guidelines, wetlands assessed on-site that were less than 0.5 acre in size were recorded with a PW point in the field, using a Trimble GPS. Wetlands confirmed to be larger than 0.5 acre were mapped as polygons using a combination of GPS and hand-sketched boundary lines on field base maps.

Each potential wetland where land-use activities such as ditching, water diversion, or agricultural practices had significantly altered site conditions were verified with at least one sampling plot. Any potential wetlands with unreliable indicators (e.g., a dominant plant that grows in both wetlands and non-wetlands, such as reed canarygrass, *Phalaris arundinacea*) were verified with at least one sampling plot. Any previously mapped wetlands no longer apparent were verified with a sampling plot.

All sampling plot data recorded on the USACE data forms are included in Appendix C. All sampling plot and PW point locations are shown on the LWI maps provided in Appendix F (Figure Series F). Refer to section 3.4 for a detailed description of mapping methods used.

3.3. Wetland Assessment

3.3.1. The Oregon Freshwater Wetland Assessment Methodology

The OFWAM (Roth et al. 1996) was used to evaluate fish and wildlife habitat, water quality, and hydrologic control functions for each wetland assessment unit in the study area. Following the OFWAM guidance, wetland assessment units were established by grouping mapped wetlands based on their hydrologic connectedness (see Table 8 in section 4.1). Wetlands were determined to be connected if culverts and / or ditches permit free flow of surface water, and the slope and drainage of the wetland is unidirectional. Wetlands on each side of a stream or river were also considered part of the same assessment unit, and their assessment included the river waterbody. LiDAR and multispectral National Agriculture Imagery Program (NAIP) infrared imagery were instrumental for desktop analysis of hydrological connectivity. Following the criteria outlined in OAR 141-086-0350, OFWAM results were used to identify Goal 5 Locally Significant Wetlands (LSWs). Where applicable, other measures to determine LSWs were implemented, as discussed later in this report. OFWAM and LSW results are used primarily for planning and educational purposes.

Wetland Functions and Values

Wetlands vary greatly by type and location; therefore, not all perform the same functions and not all are equally valued. Wetland assessment may involve one or all of the following aspects:

- **Functions**: The ecological processes in wetlands, such as nitrogen cycling
- Values: The societal importance attached to those functions, such as water quality improvement
- **Condition**: The degree to which a wetland is altered or degraded, generally by human impacts

The OFWAM uses indicators that allow an evaluation of the extent to which a specific wetland may perform a given function, and helps compare wetlands and evaluate their relative importance (value). Each wetland function evaluated by OFWAM is described below:

- Wildlife habitat: Wetlands provide essential water, food, cover, and reproductive areas for many wildlife species. OFWAM evaluates the habitat diversity for species usually associated with wetlands, without emphasizing one particular species.
- **Fish habitat**: OFWAM evaluates how a wetland provides fish habitat in streams, ponds, or lakes associated with a wetland. The assessment incorporates both warm water and cold water fish, and no particular species is emphasized.
- Water Quality: Wetlands are highly effective at removing nitrogen and phosphorous, some chemicals, heavy metals, and other pollutants from water. For this reason, artificial wetlands are often constructed for cleaning stormwater runoff and for tertiary treatment (polishing) of wastewater. Wetlands bordering streams and rivers and those that intercept runoff from fields and roads may provide this function.
- **Hydrologic control**: Wetlands can hold water during storm events and reduce flood impacts. OFWAM evaluates the effectiveness of a wetland to reduce downstream flood peaks and store floodwaters.

The OFWAM methodology for this study was streamlined to include only those wetland characterization questions that were relevant for determining whether the wetlands were LSWs. Therefore, questions 39–58 of the methodology were not included.

3.3.2. Wetlands of Special Interest for Protection

The first filter of OFWAM is to determine whether the wetland is covered by a management plan, protected by regulation, or is uncommon in Oregon. A "yes" answer to any of the ten assessment questions places the wetland into the "Special Interest for Protection" category. According to OFWAM, Wetlands of Special Interest indicate that management decisions should be made to protect the site. OARs do not require Wetlands of Special Interest to be labelled as such on LWI maps. Instead, this information is discussed in section 4.3, and included in Table 11 and the Wetland Summary Sheets in Appendix D.

3.4. Mapping and Map Transfer Procedures

SWCA used ArcGIS to prepare base mapping for the study area in accordance with the standards outlined under OAR 141-086-0210 (Inventory Development Process and Standards). All mapping layers used for development of the LWI are listed in Table 5. Data were reviewed to identify tax lot parcels that contained potential wetlands, and to generate a list of landowners for which access requests were made by the city. For field use, D-size (22×34 inches) map series were printed at a scale of 1 inch = 200 feet, and included a selection of suitable mapping layers (noted in Table 5).

Resource	Sources
Study area boundaries*	City of Medford (2015)
Tax lot boundaries and codes*	Jackson County (2015)
Tax lot access permission*	City of Medford (2015)
Most recent aerial imagery*	City of Medford (2015), flown by David C. Smith and Associates in 2013
Esri world imagery	Environmental Systems Research Institute (2015)
Historical aerial imagery	U.S. Geological Survey (1974), Google Earth (2015) [†]
Streets and street names*	Jackson County (2015)
Wetland mapping data*	Combination of data from the NWI (USFWS 1994), Jackson County (2015); and City of Medford (2013, 2015)
DSL wetland polygons*	Oregon DSL (2015)
Hydric/hydric inclusion soils*	NRCS Soil Survey Geographic database (SSURGO; NRCS [2015b])
Stream data*	Combination of National Hydrography Dataset (NHD), Jackson County, and City of Medford (2013, 2015)
HUC12 identifier and boundaries*	NHD (USGS 2014; accessed 2014)
Drainage basin boundaries	City of Medford LWI (Wetland Consulting 2002)
ORBIC data*	Oregon Biodiversity Information Center (Portland State University)
Oregon Hydrography – Whole Stream Routes	Oregon Department of Fish and Wildlife (ODFW 2014)
Contour data (100 foot and 2 foot)	Jackson County (2015) and City of Medford (2015), respectively
FEMA 100-year flood zone	Federal Emergency Management Agency (accessed 2015)

Table 5. Mapping Data Layers Used for Development of the Local Wetland Inventory

* This data layer was included on field reference maps. This location data is confidential.

[†] Google Earth photograph dates include August 5, 1994 (black and white); July 23, 2000 (black and white); August 17 and November 30, 2003; August 14, 2005; August 17, 2006; July 20, 2010; November 16, 2011; August 13, 2012; and July 4, 2014.

Scanned DSL maps of wetland polygons that had previously been identified in the same township section and ranges as the study area were obtained directly from DSL by request (DSL, 2015). These maps were reviewed by the City, and wetlands that were found to be located within the study area were manually converted to digital format for incorporation into the project geodatabase. Where possible, these wetlands were visually confirmed, and where deemed necessary, additional sample plot data were collected.

Subsequent to creating the base maps for the inventory, SWCA created an ArcGIS georeferenced database to house spatial data, attribute tables, and metadata for the study. The LWI geodatabase contains attributes that record expanded comments and data source information relating to each wetland. The geodatabase is projected using the Oregon Lambert conformal conic. Table 6 summarizes the inventory's spatial data layers that are included in the database.

Layer	Type/Code	
Wetlands	Polygon/W00	
	(wetlands < 0.5 acre in size that had been previously mapped are included in these data)	
Probable wetland	Point/PW00	
	(wetlands < 0.5 acre in size)	
Stream	Width < 6 feet = line, > 6 feet = polygon/name or unique number	
Natural waters	Polygon/WA00	
Artificial wetlands and waters	Ponds = Polygon/AW00	
	Ditches = line/Unique number	
	(no artificial wetlands were recorded)	
Sample plots	Point/P00	

Table 6. Local Wetlands Inventory Spatial Layers Included in the Georeferenced Database

Notes: The LWI database provided to the DSL additionally includes watershed boundaries, drainage basin boundaries, study area boundaries, tax lot lines and numbers, major streets, and metadata per OAR 141-086-0225. Attribute data for each layer include a "data source" field.

Using the off- and on-site methods described in section 3.2, wetland and water features were mapped and characterized. GPS-collected field data were post-processed to ensure sub-meter accuracy, and polygons that were sketched on printed field maps were digitized to an approximate accuracy of 5 meters (16.4 feet), where visibility was available.

Each mapped feature in the LWI database was assigned a unique identifier. In addition, each wetland polygon includes the following attributes:

- Visual confirmation (yes/no)
- Prior wetland determination or delineation (WD) DSL file number
- Data source(s), which references the origin(s) of the data
- Cowardin classification and modifiers
- HGM classification
- Size (acres)
- LSW determination (yes/no)

4. Local Wetland Inventory Results

4.1. Study Area Summary

The study area encompasses 6,428 acres within the urban reserve areas surrounding the city's UGB. In all, 85 wetland polygons were delineated in the study area, totaling 195 acres (not including rivers and streams, deepwater habitats, or artificially created waters). LWI wetlands are shown on maps contained in Figure Series F and G, Appendix F. Table 7, below provides a figure number index, sorted by wetland identifier code. This table is also included at the beginning of Figure series F as a reference.

-		-
WET_ID	OFWAM Group	Figure Number
W01	BCS-1	F-69
W02-A	BCS-1	F-68, F-69
W02-B	BCS-1	F-68
W03	BCS-9	F-68
W04-A	MWC-1	F-8
W04-B	MWC-1	F-8
W04-Mosaic	MWC-1	F-8
W06	MWC-2	F-7, F-8
W07	MWC-3	F-4, F-5
W08	MWC-13	F-9, F-10
W09	MWC-15	F-10
W10-A	MWC-5	F-11, F-12
W10-B	MWC-5	F-11
W10-C	MWC-5	F-11
W10-D	MWC-5	F-11
W10-E	MWC-5	F-11
W10-F	MWC-5	F-13, F-14
W10-G	MWC-5	F-11, F-12, F-13, F-14
W11	MWC-10	F-16, F-17
W13	BCS-2	F-65, F-66
W14	LSC-1	F-58
W15	LSC-2	F-57, F-58
W17	BCS-6	F-71, F-72
W18	BCS-5	F-74
W19-A	BCS-7	F-76
W19-B	BCS-7	F-76
W20	BCS-8	F-76
W21	MWC-6	F-22, F-23
W22	MWC-5	F-11

Table 7. Figure Number Index for Figure Series F

0		5
WET_ID	OFWAM Group	Figure Number
W23	MWC-12	F-2
W24	MWC-2	F-2
W25	MWC-8	F-1, F-2, F-6
W26	N/A	F8
W27	MWC-16	F8
W28	MWC-16	F8
W29	N/A	F-6
W30	N/A	F-6
W31	MWC-9	F-7
W32	N/A	F-7
W33	N/A	F-3
W34	MWC-2	F-3
W35	MWC-2	F-3
W36	MWC-1	F-8
W37	N/A	F-4
W38	MWC-3	F-4
W39-A	MWC-4	F-10
W39-B	MWC-4	F-10, F-12
W40	MWC-15	F-10
W41	MWC-4	F-9, F-10
W42	MWC-14	F-9, F-10
W43	MWC-11	F-9
W44	N/A	F-11
W45	N/A	F-11
W46	MWC-6	F-19
W47	MWC-6	F-16, F-17, F-20, F-21
W48	MWC-6	F-19
W49	MWC-6	F-16, F-19, F-20
W50	MWC-6	F-16, F-19
W51	MWC-6	F-16, F-19
W53	MWC-6	F-22
W54	MWC-6	F-21, F-22
W55	MWC-6	F-21
W56	MWC-6	F-21
W57	MWC-6	F-21
W61	LPC-1	F-50
W62	LSC-4	F-56
W63	LSC-3	F-57

Table 7. Figure Number Index for Figure Series F

WET_ID	OFWAM Group	Figure Number
W64	LSC-3	F-57, F-62
W66	BCS-2	F-66
W68	BCS-3	F-66
W69	N/A	F-68
W70	BCS-4	F-74
W71	BCS-4	F-74
W72	BCS-4	F-74
W74	BCS-4	F-72, F-74
W78	DRC-1	F-38, F-39
W79	BCS-5	F-74
W81	N/A	F-87
W82	MWC-7	F-1, F-2
W85	MWC-2	F-2, F-3
W86	MWC-2	F-2
W87	MWC-2	F-8
W88	MWC-2	F-8
W89	MWC-6	F-20
W90	MWC-6	F-86

Table 7.	Figure	Number	Index for	Figure	Series F
	riguic	Number	ITIGGY IOI	riguic	0011031

Table 8 lists the unique identification codes assigned to each of the 85 wetlands identified in the study area, with each associated OFWAM/drainage basin group code, Cowardin and HGM class, visual confirmation status, wetland size, and DSL file number. While conducting site visits, 13 upland sampling plots and 12 wetland sampling plots were recorded. Sampling plot data forms are found in Appendix C.

Table 8. Summary of Wetlands Delineated within the Study Are	ea
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OFWAM Grouping [*]	Unique Identifier	Cowardin Class [†]	HGM Class [‡]	Visually Confirmed	Size (acres)	LSW Determination	DSL File Number
BCS-1	W01	PEMCh	SV	Yes	3.50	No	None
BCS-12	W02-A	PEMCh	SV	Yes	0.77	No	None
BCS-12	W02-B	PEMCh	RI	Yes	0.36	No	None
BCS-9	W03	PEMBh	SV	Yes	2.33	No	None
MWC-1	W04-A	PEMCd	SV	Yes	1.67	Yes	None
MWC-1	W04-B	PEMCh	RI	Yes	0.15	Yes	None
MWC-1	W04-Mosaic	PEMC	SV	Yes	6.56	Yes	None
MWC-2	W06	PSS1C	RI	Yes	0.30	Yes	WD2012-0181
MWC-3	W07	PEMBh	SV	Yes	1.35	Yes	WD2005-0692
MWC-13	W08	PEMB	SV	No	1.76	Yes	None
MWC-15	W09	PEMBh	SV	Yes	11.52	Yes	WD2009-0470
MWC-5	W10-A	PEMCd	RFT	Yes	2.79	Yes	WD2007-0106

OFWAM Grouping [*]	Unique Identifier	Cowardin Class [†]	HGM Class [‡]	Visually Confirmed	Size (acres)	LSW Determination	DSL File Number
N/A	W10-B	PEMB	SV	Yes	0.05	N/A	WD2007-0106
N/A	W10-C	PEMB	SV	Yes	0.03	N/A	WD2007-0106
MWC-5	W10-D	PEMC	SV	Yes	0.45	Yes	WD2007-0106
MWC-5	W10-E	PEMC	SV	Yes	0.61	Yes	WD2007-0106
MWC-5	W10-F	PEMFh	DCNP	No	3.80	Yes	WD2007-0106
MWC-5	W10-G	PABHh	DCP	Yes	1.84	Yes	WD2007-0106
MWC-10	W11	PEMCx	SV	Yes	0.98	No	None
BCS-2	W13	PEMCx	RFT	Yes	0.96	Yes	None
LSC-1	W14	PSS1A/PEMA	RI	Yes	0.59	Yes	None
LSC-2	W15	PSS1d	RFT	Yes	2.05	Yes	None
BCS-6	W17	PEMCx	RI	Yes	0.87	No	WD2004-0551
BCS-5	W18	PFO1h	SV	Yes	0.96	Yes	None
BCS-7	W19-A	PEMCd	SH	Yes	6.75	Yes	None
BCS-7	W19-B	PSS1	DCP	Yes	0.49	Yes	None
BCS-8	W20	PEMC	SV	Yes	3.77	No	None
MWC-6	W21	PFOd/PABFx	SV	Yes	2.06	Yes	None
MWC-5	W22	PEMC	SV	Yes	1.49	Yes	None
MWC-12	W23	PEMA	RI	No	6.41	No	None
MWC-2	W24	PEMA	RI	No	0.19	Yes	None
MWC-8	W25	PEMA	Flats	No	7.71	Yes	None
MWC-2	W26	PEMC	RI	No	0.46	Yes	WD2012-0181
MWC-16	W27	PEME	SV	Yes	0.81	No	WD2012-018
MWC-16	W28	PEME	SV	Yes	0.51	No	WD2012-0181
N/A	W29	PSS1/PEM	SV	No	0.19	N/A	None
N/A	W30	PEMB	SV	No	0.14	N/A	None
MWC-9	W31	PEMA	RI	Yes	0.52	No	None
N/A	W32	PEMA	Flats	No	0.49	N/A	WD2012-0181
N/A	W33	PUBFx	Flats	No	0.14	N/A	None
MWC-2	W34	PSS1F	RFT	Yes	0.41	Yes	None
MWC-2	W35	PSS1F	RFT	Yes	0.66	Yes	None
MWC-1	W36	PEMCx	RI	No	0.28	Yes	None
N/A	W37	PSS1C	LFV	Yes	0.12	N/A	None
MWC-3	W38	PEMCd	RFT / SV	Yes	6.34	Yes	WD2012-0181
MWC-4	W39-A	PSS1/PEM	RFT / SV	No	3.37	Yes	WD2009-0470
MWC-4	W39-B	PSS1F	RFT	Yes	0.97	Yes	None
MWC-15	W40	PEMB	SV	No	0.29	Yes	WD2009-0470
MWC-4	W41	PSSF	SV	No	1.80	Yes	None
MWC-14	W42	PEMCh	SV	No	0.58	Yes	None
MWC-11	W43	PSS1B	SV	No	1.32	No	None

OFWAM Grouping [*]	Unique Identifier	Cowardin Class [†]	HGM Class [‡]	Visually Confirmed	Size (acres)	LSW Determination	DSL File Number
N/A	W44	PEMC	SV	No	0.15	N/A	None
N/A	W45	PEMCx	RI	No	0.16	N/A	None
MWC-6	W46	PABHh	DO	No	1.34	Yes	None
MWC-6	W47	PEMBd	RFT	No	5.74	Yes	None
MWC-6	W48	PSSC1h	RFT	No	0.39	Yes	None
MWC-6	W49	PSS1Cd/PEMC	RFT	No	6.96	Yes	None
MWC-6	W50	PUBHx/PSS1Bh	SV	Yes	2.04	Yes	None
MWC-6	W51	PSS1Bh/PEMB	SV	No	0.52	Yes	None
MWC-6	W53	PEMBd	SV	Yes	1.18	Yes	None
MWC-6	W54	PEMB	SV	Yes	8.84	Yes	None
MWC-6	W55	PEMBd	SV	Yes	0.51	Yes	None
MWC-6	W56	PEMBd	SV	No	1.87	Yes	None
MWC-6	W57	PEMBd	SV	No	0.65	Yes	None
LPC-1	W61	PEMh/PSSh	RI	No	1.83	No	None
LSC-4	W62	PSS1d	RFT	No	0.72	No	None
LSC-3	W63	PEMBh	DCNP	No	2.31	No	None
LSC-3	W64	PEMBh	DCNP	Yes	5.19	No	None
BCS-11	W66	PEMCd	RFT	Yes	0.79	Yes	None
BCS-3	W68	PEMB	SV	No	0.73	No	None
N/A	W69	PUBFx	SV	No	0.16	N/A	None
BCS-4	W70	PSS1Cd	RI	Yes	2.32	Yes	WD2015-0492
BCS-4	W71	PEMC	SV	No	2.51	Yes	None
BCS-4	W72	PEMC	SV	No	2.28	Yes	None
BCS-10	W74	PEMC	SV	No	5.83	Yes	None
DRC-1	W78	PEMC	RFT	No	1.32	Yes	None
BCS-5	W79	PFO1B/R3UB	RFT	Yes	2.82	Yes	None
N/A	W81	PEMB	SV	No	0.09	N/A	None
MWC-7	W82	PEMA	Flats	Yes	37.33	Yes	None
MWC-2	W85	PSS1C/PEMC	RFT	Yes	0.71	Yes	None
MWC-2	W86	PSS1C/PEMC	RFT	No	1.87	Yes	None
MWC-2	W87	PEMC/PSS1C	RFT	No	0.42	Yes	WD2002-0010
MWC-2	W88	PSS1C/PEMC	RFT	No	0.35	Yes	None
N/A	W89	PEMC	SV	No	0.11	No	None
N/A	W90	PEMC	SV	No	0.10	No	None

* OFWAM assessment codes: MDW = Midway Creek Drainage; BCS = Bear Creek South Drainage, DRC = Dry Creek Drainage; LSC = Larson Creek Drainage; LPC = Lone Pine Creek Drainage; N/A = Below the 0.5 acre minimum threshold for OFWAM assessment

[†] Class descriptions are provided in Table 9. Water regime and special modifiers are described in Appendix B3.

 $^{+}$ HGM Classification codes: SV = slope valley; RI = riverine impounding; RFT = riverine flow-through; DCNP = depressional closed nonpermanent; DCP = depressional closed permanent; SH = slope headwater; DO = depressional outflow. Refer also to Appendix B4.

An analysis of Cowardin classification wetland types shows that the emergent type makes up approximately 80%, and the scrub-shrub type makes up approximately 14% of the delineated wetlands in the study area. Table 9 provides a summary of identified wetland types by class, acres, and percentage of total wetlands. Wetland summary sheets for each wetland are found in Appendix D.

Ninety five PWs were identified in the study area and are depicted in Figure Series F and G, Appendix F. PW66 has the potential to be a locally significant wetland if future on-the-ground investigation at this location were to delineate wetland/s larger than 0.5 acre in size.

Wetland Classification*	Classification Description	Approximate Acres	Percentage of Wetlands
Palustrine Emergent (PEM) [†]	Wetlands with rooted herbaceous vegetation that stands erect above the water or ground surface.	158	81%
Palustrine Scrub-shrub (PSS) [‡]	Wetlands dominated by shrubs and tree saplings less than 20 feet high.	26	13%
Palustrine Forested (PFO) [‡]	Wetlands dominated by trees that are greater than 20 feet high.	6	3%
Palustrine Aquatic Bed (PAB)/Unconsolidated Bottom (PUB) [‡]	PAB: Greater than 30% vegetation cover, growing on or below the water's surface for most of the growing season most years	6	3%
	PUB: At least 25% cover of particles smaller than stones, and a vegetative cover less than 30%.		
Total		195	100%

Table 9. Types of Wetlands in the Study Area

* Where two wetland types were present in one wetland polygon, the predominant class type has been assigned in this table.

[†]Where NWI wetland data were incorporated in to the inventory, water regime classification was retained.

[‡] Includes multiple subclasses and water regimes. Values were rounded up.

4.2. Oregon Freshwater Wetland Assessment Ranking

The OFWAM provides qualitative information on the relative value of wetlands. Details of OFWAM function questions and rationale are included in Appendix B. Categories of high (H), medium (M), and low (L) were assigned to the assessment criteria to easily compare the results. H was assigned to wetlands receiving the highest function or condition result (e.g., intact, diverse), L was assigned to the wetlands receiving the lowest result (lost or not present), and M was assigned to the results that do not fit the other criteria (impacted or degraded, potential). This system is summarized in Table 10.

Wildlife Habitat	 H. Wetland provides diverse wildlife habitat. M. Wetland provides habitat for some wildlife species. L. Wetland does not provide wildlife habitat.
Fish Habitat	 H. Wetland's fish habitat function is intact. M. Wetland's fish habitat function is impacted or degraded. L. Wetland's fish habitat function is lost or not present.
Water Quality	 H. Wetland's water-quality function is intact. M. Wetland's water-quality function is impacted of degraded. L. Wetland's water-quality function is lost or not present.
Hydrologic Control	 H. Wetland's hydrologic control function is intact. M. Wetland's hydrologic control function is impacted or degraded. L. Wetland's hydrologic control function is lost or not present.

Table 10. Key to OFWAM Ranking

4.3. Locally Significant Wetland, and Wetlands of Special Interest for Protection Criteria

LSW determinations were based on OAR 141-086-300 through 141-086-350 (Identifying Significant Wetlands). If the assessed wetland unit provided "diverse" wildlife habitat, "intact" fish habitat, "intact" water quality function, or "intact" hydrologic control function, then the wetland was determined to be locally significant. Table 11 provides the criteria for determining whether a wetland is locally significant. All wetlands, even those not determined to be locally significant, may still be regulated by the DSL and the USACE. Refer to Table 8 and the wetland summary sheets (Appendix D) for details of each wetland.

Table 11. Criteria for Determining Goal 5 Locally Significant Wetlands

1.	Is this wetland artificially created entirely from upland and:
a.	created for the purpose of controlling, storing, or maintaining storm water
b.	is used for active surface mining or as a log pond
c.	is a ditch without a free and open connection to natural waters of the state and does not contain food or game fish
d.	is less than 1 acre and created unintentionally from irrigation or construction
e.	created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industria water, or a golf hazard
2	Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)?
	datory Locally Significant Wetland Criteria: A wetland is locally significant if "Yes" is the answer to <u>any</u> of the ria below.
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 DEQ as a water quality limited water body (303(d) list) and
	is the wetland's water quality function intact, or impacted or degraded?
6	Does the wetland contain a rare plant community?
7	Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
8	Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's fish habitat function intact, or impacted or degraded?
	onal Locally Significant Wetland Criteria: Local governments may identify a wetland as significant if "Yes" is the ver to the criteria below
1	Does the wetland represent a locally unique native plant community and
	provides diverse wildlife habitat or habitat for some species or
	has an intact, or impacted or degraded fish habitat function or
	has an intact, or impacted or degraded water quality function or
	has an intact, or impacted or degraded hydrologic control function.
2	Is the wetland publicly owned and used by a school or organization and
	does the wetland provide educational uses?

Wetlands of Special Interest for Protection were identified by addressing the 10 "first filter" questions outlined in Chapter 5 of the OFWAM. Responses to these questions identify whether the wetland is in a management plan, is protected by regulatory rules or statutes, or is uncommon in Oregon.

4.4. OFWAM, LSW, and Wetlands of Special Interest for Protection Results

OFWAM ranking and LSW determination results for each wetland are shown in Table 12. Of the 23 OFWAM assessment units identified in the study area, 14 units meet the criteria for local significance. These 14 units cover a total of 160 acres (58 mapped wetland polygons), which is approximately 85% of the total mapped wetland acreage within the study area. Detailed results are contained in Appendix E, which includes OFWAM wetland characterization questions and answers, and function and condition summary tables.

Three OFWAM assessment units in the Midway Drainage basin (MWC-1, MWC-7, and MWC-8) and one unit in the Bear Creek South drainage basin (BCS-5) met the criteria for wetlands of special interest for protection. Table 8 provides a listing of the wetland codes contained in each OFWAM assessment unit.

Wetland Assessment Code and unit size*, †	Wildlife Habitat	Fish Habitat	Water Quality	Hydrologic Control	General Description and LSW Criteria (where applicable)	LSW (yes or no)?
MWC-1 8.7 acres	Μ	N/A	Μ	Н	This is a wetland of special interest for protection; it includes an Agate Desert vernal pool mosaic (W04-Mosaic), and the unit is located within the Swanson Creek 100-year flood zone. May contain plant species listed as endangered by the State of Oregon.	Yes
MWC-2 5.4 acres	Н	Μ	Н	Н	Comprises mostly riparian vegetation along Swanson Creek and located in the floodplain of Swanson Creek, adjacent to industrial and residential land uses.	Yes
MWC-3 7.7 acres	Μ	Μ	Н	М	This complex provides effective pollutant removal for downstream waters by means of a large surface area and connection to other wetlands	Yes
MWC-4 6.1 acres	Н	Μ	Н	Н	Comprises mostly riparian vegetation along Swanson Creek, and located in the floodplain of Swanson Creek, adjacent to industrial and residential land uses.	Yes
MWC-5 11 acres	Μ	Μ	Μ	Η	Coker Butte complex. Unit is more than 5 acres in size. Extensive ponding in growing season. Streams and ponds present.	Yes
MWC-6 33.2 acres	Μ	Μ	Μ	Н	PSS/PEM complex at the headwaters of Midway and Swanson Creeks. Unit is more than 5 acres in size, with extensive ponding in growing season. Streams and ponds present.	Yes

 Table 12. OFWAM Rankings[‡], LSW Determination, and Wetlands of Special Interest for Protection

 Results

Wetland Assessment Code and unit size ^{*, †}	Wildlife Habitat	Fish Habitat	Water Quality	Hydrologic Control	General Description and LSW Criteria (where applicable)	LSW (yes or no)?
MWC-7 37.3 acres	М	Μ	Μ	Н	Wetland of special interest for protection; this is a mapped Agate Desert vernal pool mosaic. May contain plant species listed as endangered by the State of Oregon.	Yes
MWC-8 7.7 acres	М	Μ	Μ	Н	Wetland of special interest for protection; this is a mapped Agate Desert vernal pool mosaic. May contain plant species listed as endangered by the State of Oregon.	Yes
MWC-9 0.52 acre	М	Μ	М	М	This is a minor wetland just over the 0.5-acre threshold; runs along a ditch line.	No
MWC-10 1 acre	М	М	М	М	Long narrow wetland along a drainage line in an old orchard, now a pasture.	No
MWC-11 1.3 acre	М	N/A	М	М	Potentially a relict oxbow of Swanson Creek. Adjoins to industrial use area.	No
MWC-12 6.4 acres	М	Μ	М	М	Large PEM wetland in pasture.	No
MWC-13 1.8 acre	М	М	Н	М	PEM wetland in old oxbow of Swanson Creek with ponding evident	Yes
MWC-14 0.6 acre	М	N/A	М	М	Isolated PEM wetland	No
MWC-15 11.8 acres	М	N/A	Н	М	Large PEM wetland on decommissioned race track north of Swanson Creek.	Yes
MWC-16 1.3 acre	М	N/A	Н	М	PEM wetland south of Justice Road	No
BCS-1 3.5 acres	М	Μ	Μ	М	Comprises flood-irrigated fields adjacent but not connected to the irrigation canal. Unit is more than 0.25 mile away from Bear Creek (horizontal distance).	No
BCS-2 1 acre	М	Μ	Μ	М	This Larson Reservoir complex is not connected to the "water quality–limited" Larson Creek; however, it is within 0.25 of a mile and therefore passes LSW criteria.	Yes
BCS-3 0.7 acre	М	М	Μ	М	This unit comprises a small wetland behind a house that is more than 0.25 mile south of Larson Creek.	No
BCS-4 7.1 acres	Н	Μ	Н	Η	Unit is located on east side of I-5, opposite the Bear Creek Greenway (connected via culvert). Intact water quality and hydrological control functions. Unit is within 0.25 mile of water quality–limited Bear Creek.	Yes
BCS-5 3.8 acres	Н	н	Μ	М	Bear Creek Greenway unit (within 0.25 mile of Bear Creek), a wetland of special interest for protection. Intact fish habitat function present. Bear Creek contains areas of critical habitat for Coho salmon (as designated by the National Marine Fisheries Service on May 5, 1999). The BCS-5 wetlands within Bear Creek's riparian area may provide off-channel habitat during high flows.	Yes

Table 12. OFWAM Rankings [‡] , LSW Determination, and Wetlands of Special Interest for Protection
Results

Wetland Assessment Code and unit size ^{*,†}	Wildlife Habitat	Fish Habitat	Water Quality	Hydrologic Control	General Description and LSW Criteria (where applicable)	LSW (yes or no)?
BCS-6 0.9 acre	М	Μ	Μ	М	This is a golf course wetland unit located along parcel boundary.	No
BCS-7 7.2 acres	М	N/A	Μ	Н	This is a groundwater-fed complex north of South Stage Road. Intact hydrological control function in place.	Yes
BCS-8 3.8 acres	М	N/A	М	М	This is a groundwater-fed wetland with a small pond, north of South Stage Road.	No
BCS-9 2.3 acres	М	М	М	М	Flood-irrigated field with a downslope surface- water connection to an irrigation district canal.	No
BCS-10 5.8 acre	Н	Μ	Н	Η	Unit is located on east side of I-5, opposite the Bear Creek Greenway (connected via culvert). Intact water quality and hydrological control functions. Unit is within 0.25 mile of water quality–limited Bear Creek.	Yes
BCS-11 0.8 acre	М	Μ	Μ	М	This Larson Reservoir complex is not connected to the "water quality–limited" Larson Creek; however, it is within a quarter mile of the creek and therefore passes LSW criteria.	Yes
BCS-12 1.1 acre	М	N/A	М	М	PEM wetland in flood-irrigated field next to irrigation channel	No
DRC-1 1.3 acre	Н	М	М	М	Wetland located in a tributary to Dry Creek, on the eastern slope of Prescott Park	Yes
LSC-1 0.6 acre	М	N/A	Н	М	Unit is a scrub-shrub wetland located on an ephemeral drainage, east of Cherry Lane. Intact water quality function.	Yes
LSC-2 2.1 acres	М	М	Н	М	This Mud Creek complex has intact water quality function due to ponding and dominance of scrub- shrub vegetation.	Yes
LSC-3 7.5 acres	М	Μ	Μ	М	Unit is a scrub-shrub wetland on ephemeral drainage, east of Cherry Lane. Intact water quality function. Separated from LSC-1 by a raised road.	No
LSC-4 0.7 acre	М	М	Μ	М	This is a scrub-shrub wetland north of Mud Creek, fed by an ephemeral drainage. No visual confirmation.	No
LPC-1 1.8 acres	М	М	М	М	This unit is surrounded by orchards off of Foothill Road. It connects to the Phoenix irrigation canal.	No

Table 12. OFWAM Rankings[‡], LSW Determination, and Wetlands of Special Interest for Protection

 Results

* OFWAM ranking key: H = High (Intact / Provides diverse wildlife habitat); M = Medium (Impacted or degraded / Provides habitat for some species); N/A = Criteria not applicable

* Wetland assessment codes: MDW = Midway Creek Drainage; BCS = Bear Creek South Drainage, DRC = Dry Creek Drainage; LSC = Larson Creek Drainage; LPC = Lone Pine Creek Drainage.

[†] Refer to Table 8 for the itemization of individual wetland codes (and sizes) that are included in each OFWAM assessment unit.

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- ESH Maps: <u>http://www.oregon.gov/DSL/PERMITS/esshabitat.shtml</u> and <u>http://www.oregon.gov/DSL/PERMITS/counties_ess.shtml</u>

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Appendix A

Oregon Local Wetlands Inventory Administrative Rules

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LOCAL WETLANDS INVENTORY (LWI) STANDARDS AND GUIDELINES

141-086-0180

Purpose

Pursuant to ORS 196.674 pertaining to the Statewide Wetlands Inventory (SWI), these rules establish a system for uniform wetland identification and comprehensive mapping. These rules also establish wetlands inventory standards for cities or counties developing a wetland conservation plan (WCP) pursuant to ORS 196.678. A Local Wetlands Inventory (LWI) is developed for all or a portion of a city or county according to the standards and guidelines contained in these rules (OAR 141-086-0180 through 141-086-0240).

Stat. Auth.: ORS 196.674 – 196.681 & 196.692 Stats. Implemented: ORS 196.668 – 196.692 Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94; DSL 2-2001, f. & cert. ef. 2-26-01

141-086-0185

Applicability

(1) Once approved by the Department of State Lands (Department), the LWI must be used in place of the National Wetlands Inventory (NWI) and is incorporated into the SWI.

(2) The approved LWI must be used by cities and counties in lieu of the NWI for notifying the Department of land use applications affecting mapped wetlands and other waters (ORS 215.418 and 227.350).

(3) An LWI fulfills the wetlands inventory requirements for Goal 5 and Goal 17 (OAR 660-015 and 660-023). An LWI that meets the additional WCP requirements specified in these rules must be used as the wetlands inventory basis for a WCP.

(4) A wetland function and condition assessment of mapped wetlands must be conducted as part of the LWI using the *Oregon Freshwater Wetland Assessment Methodology (OFWAM)* published by the Department in 1996. An equivalent functional assessment methodology may be used or adjustments may be made to OFWAM upon written approval by the Director. The assessment results are used to determine the relative quality (functions, values, and condition) of the mapped wetlands and to designate significant wetlands (OAR 141-086-0300 through 141-086-0350) as required for Goal 5, or to assess wetland functions and values for a WCP.

(5) An LWI is used by the Department, other agencies and the public to help determine if wetlands or other waters are present on particular land parcels.

(6) An LWI provides information for planning purposes on the location of potentially regulated wetlands and other waters such as lakes and streams, but is not of sufficient detail for permitting purposes under the state Removal-Fill Law (ORS 196.800 through 196.990). Smaller wetlands may not be mapped, and wetlands may be missed due to lack of onsite access, tree canopy cover and other constraints. A wetland delineation or determination report may be needed for parcels without LWI-mapped wetlands. A Department-approved wetland delineation report for wetlands identified in an LWI is usually needed prior to site development.

(7) All wetlands inventory procedures and products are subject to review and approval by the Department before the products:

(a) Are incorporated into the SWI;

(b) Can be used in lieu of the NWI for Wetland Land Use Notification purposes; or

(c) Can be used by a city or county for Goal 5, Goal 17 or WCP purposes.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 196.674 - 196.681 & 196.692
Stats. Implemented: ORS 196.668 - 196.692
Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94, Renumbered from 141-086-0190(1) & (4); DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0200

Definitions

(1) "Cowardin class or subclass" means 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.

(2) "Director" means the Director of the Oregon Department of State Lands or designee.

(3) "Department" means the Oregon Department of State Lands.

(4) "Georeferenced" means linking geographic data to known coordinates on the surface of the earth.

(5) "GIS" or "Geographic Information System" means a system of hardware, software and data storage that allows for the analysis and display of information that has been geographically referenced.

(6) "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.

(7) "Indicator" means the soil, vegetation, and hydrology characteristics or other field evidence that indicate that wetlands are present.

(8) "Inventory" means 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.

(9) "Mapping" means representing the identified wetlands and their approximate boundaries on a map.

(10) "Offsite Determination" means a wetland determination conducted without field verification using NWI maps, soils maps, and aerial photographs.

(11) "Other Waters" means waters of the state other than wetlands, such as streams and non-vegetated ponds.

(12) "Probable Wetland" or "PW" means 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.

(13) "Sample Plot" means 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.

(14) "Statewide Wetlands Inventory" or "SWI" means 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.

(15) "Stream" means 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.

(16) "Visually confirm" or "visual confirmation" means to walk over and/or visually check an area to make a wetland determination and map wetlands and other waters.

(17) "Wetlands" means those 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)).

(18) "Wetland Delineation Report" means 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.).

(19) "Wetland Determination" means 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).

(20) "Wetland Mosaic" means a complex of several wetlands that are interspersed between areas of non-wetland each less than one half of an acre in size, or less than one tenth of an acre in size for a WCP, making them difficult to map.

Stat. Auth.: ORS 196.674 - 196.681 & 196.692 Stats. Implemented: ORS 196.668 - 196.692 Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94; DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0210

Inventory Development Process and Standards

(1) Wetland determinations conducted for the purpose of developing the LWI must be conducted according to the criteria, methodologies and guidance currently accepted by the Department (OAR 141-090 et seq.).

(2) Sources of inventory information must include:

(a) U.S.D.A. Natural Resources Conservation Service county soil survey and county list of hydric soils and soils with hydric inclusions, or other available soil surveys;

(b) NWI maps;

(c) USGS topographic maps;

- (d) Federal Emergency Management Act floodplain maps, where available;
- (e) Other available local wetlands inventories or wildlife habitat inventories that include wetlands;
- (f) Department wetland determination/delineation files; and

(g) High resolution (1 meter or finer) color and color infrared (where available) aerial photos taken within five years of inventory initiation. The minimum photo scale must be 1 inch = 200 feet unless another scale is approved by the Department.

- (3) Sources of inventory information may include but are not limited to:
- (a) LIDAR (Light Detection and Ranging) topographic data;
- (b) Irrigation drainage district maps;
- (c) Local knowledge of area (e.g., residents);
- (d) Oregon State University Institute for Natural Resources Oregon Explorer data;
- (e) Department permit files; and
- (f) Resource agencies, including the Oregon Department of Fish and Wildlife and U.S. Fish and Wildlife Service.

(4) Before beginning fieldwork, prepare a field map using an aerial photograph and include the approximate location of:

- (a) Any wetlands, deepwater habitats, and streams from the NWI;
- (b) Any wetlands from the Department's wetland determination/delineation files or from other inventories;
- (c) Hydric soils and soils with hydric inclusions (each coded separately);
- (d) Wetlands or potential wetlands identified on aerial photos;
- (e) Sites to visually confirm based on other leads; and
- (f) Properties where access was granted.

(5) Aerial photo interpretation must be tested early in the inventory process by interpreting several wetland types, ground truthing the interpretations, and then completing the aerial photo interpretations.

(6) The local government must be responsible for requesting property access permission from landowners in the study area for parcels identified by inventory staff and/or the Department as possibly containing wetlands.

(7) All potential wetlands that are not assessed with a sample plot and other waters identified through the process described in OAR 141-086-0210(1) through (4) must be visually confirmed to the extent practicable.

(8) Where property access is granted, sample plot data must be provided according to the following minimum standards:

(a) Verify each wetland with at least one sample plot that best characterizes the wetland;

(b) Verify with at least one sample plot each potential wetland where land use activities such as ditching, water diversion, or agricultural practices are likely to have significantly altered site conditions, making observations from a distance or a site walk-over unreliable; and

(c) Verify with at least one-sample plot potential wetlands with unreliable indicators (e.g., one dominant plant that grows in both wetlands and non-wetlands, such as *Phalaris arundinacea*).

(9) If the LWI will be used for a WCP, in addition to the requirements in OAR 141-086-0210(7) and (8), a minimum of one sample plot must be provided that best characterizes each dominant wetland plant community.

(10) If the landowner denies access permission and if visual confirmation from an adjacent property or road is not possible, employ off-site wetland determination methods.

(11) All wetlands greater than or equal to one half of an acre and all wetlands identified in a Department-approved wetland delineation report must be identified and mapped as polygons. Wetlands that are less then [sic] one half of an acre may be mapped as polygons or as probable wetlands. Probable wetlands must be represented as points on the appropriate parcel(s) and should be labeled as "PW" on the maps. No further characterization or assessment is required for probable wetlands in the LWI. Probable wetlands will trigger cities and counties to notify the Department of proposed land use activities affecting mapped wetlands and other waters (ORS 215.418 and 227.350). For a WCP, all wetlands one-tenth acre and larger shall be identified and mapped as polygons.

(12) The aim of the LWI is to map the location of wetlands at an accuracy of approximately 5 meters (16.4 feet). However, the actual accuracy may be less for some wetlands such as seasonal or forested wetlands that could not be visually confirmed.

(13) Each wetland must be assigned a unique identification code.

(14) All previously delineated wetlands from the Department's files must be field-verified, if possible, to determine if wetlands are still present and are approximately the same size and configuration as when delineated.

(15) All identified wetlands must be classified:

(a) To the class level of Cowardin (and to subclass for scrub-shrub and forested classes) and must include water regime and special modifiers (e.g., "farmed" or "diked/impounded); and

(b) By dominant HGM class and subclass.

(16) When a wetland contains more than one adjoining Cowardin classification, different classes or subclasses greater than 0.25 acres in size must be mapped and labeled as separate polygons.

(17) Artificially created wetlands or other waters (such as irrigation canals and drains, industrial ponds, log ponds, golf course features, and storm water detention ponds that are greater than one half of an acre in size) must be included in the inventory regardless of their jurisdictional status, and their original purpose must be labeled on the inventory maps.

(18) Where a wetland mosaic occurs, the site must be labeled as a wetland/upland mosaic on all inventory maps and so described on the wetland summary sheet.

(19) Streams and other waters must be mapped, but no further documentation such as wetland summary sheets or OFWAM assessment is required. If an existing stream geospatial dataset is used, it may be necessary to adjust the layer to align with riparian or other linear wetlands.

(20) Using OFWAM, each wetland in its entirety must be assessed for all four ecological functions: water quality, hydrologic control, wildlife habitat and fish habitat. Any wetlands that may qualify as a Locally Significant Wetland due to education or recreation use must also be evaluated for those social functions (values) in OFWAM. The remaining functions and conditions in OFWAM do not need to be applied to any of the wetland assessment units. Contiguous wetlands or those in close proximity and assigned different codes may be grouped into a single OFWAM assessment unit based upon the guidance in OFWAM and/or in consultation with the Department.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 196.674 - 196.681 & 196.692 Stats. Implemented: ORS 196.668 - 196.692 Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94; DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0220

LWI Reports

(1) A report that meets the requirements in OAR 141-086-0220 (2) and (3) must be developed and submitted to the Department for approval. A minimum of two sets of the final Department-approved LWI report in both paper and electronic format (.pdf file format) must be prepared; one set must be provided to the Department for inclusion in the SWI and the other must be provided to the local government.

(2) The report must document the inventory and mapping processes and results, and include the following information:

(a) A general description of the study area including a description of the landscape setting;

(b) A description of the wetland inventory process including the public involvement process; the inventory methods including the date(s) and scale(s) of source maps and aerial photos used; the offsite and onsite wetland determination procedures including procedures used for visual confirmation and probable wetland identification; and all mapping and map transfer procedures used;

(c) A summary of the inventory results including the total acreage of the study area and the total number and acreage of wetlands identified within the study area, excluding the acreage of deepwater habitat and artificially created wetlands such as detention ponds or aggregate extraction ponds;

(d) A discussion of the OFWAM assessment process (e.g. how assessment units were defined) and the results;

- (e) A summary of Locally Significant Wetlands, if identified (may be in table format); and
- (f) All figures, with the study area clearly outlined.
- (3) Appendices must include:
- (a) Sample plot data on standard field data forms per OAR 141-090 et seq.
- (b) A summary sheet for each wetland that must at a minimum include:
- (A) The unique wetland code;

- (B) Street address or equivalent location description;
- (C) Township, Range, Section, Quarter Quarter Section and tax lot(s) that contain the mapped wetland;
- (D) Approximate wetland size (in acres);
- (E) Cowardin classification(s);
- (F) HGM classification(s);
- (G) Mapped soil unit(s);

(H) Watershed boundaries at the 6th field Hydrologic Unit Code scale as defined by the US Geological Survey or finer;

- (I) Sample plot numbers, if any;
- (J) Department wetland determination or delineation file numbers, where applicable;
- (K) Scientific and common names of dominant plant species;
- (L) Primary hydrology sources;
- (M) Sampling or visual confirmation date(s) and method;
- (N) Locally Significant Wetland determination, if made; and

(O) Comments that describe the wetland, including topographic position, land uses and significant alterations (including agricultural).

- (c) OFWAM assessment results for each wetland assessment unit that must include:
- (A) Wetlands of Special Interest for Protection (OFWAM, Chapter Five);
- (B) Wetland Characterization results (OFWAM, Appendix B);
- (C) Assessment results represented in table format;
- (D) Answer sheets for all wetland assessment questions (OFWAM, Appendix C);

(E) Function and condition summary sheets for fish habitat, wildlife habitat, water quality, hydrologic control and, if applicable, education and recreation (OFWAM, Appendix C); and

- (F) Watershed summary sheet (OFWAM, Appendix C).
- (d) Technical staff members and qualifications.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 196.674 - 196.681 & 196.692 Stats. Implemented: ORS 196.668 - 196.692 Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94; DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0222

Paper Map Standards

(1) Maps that meet the requirements in OAR 141-086-0222(2) through (5) must be developed and submitted to the Department for approval. A minimum of two sets of the final Department-approved LWI maps in both paper and electronic format (.pdf file) must be prepared; one set must be provided to the Department for inclusion in the SWI and the other must be provided to the local government.

(2) If the study area is covered by more than one wetland map, a single, smaller scale reference map of the complete study area is required. The reference map shall be indexed to the individual, large-scale maps and show, at a minimum, the Public Land Survey System grid, the location and code of all identified wetlands, streams, the study area boundary, and major, named streets.

(3) Wetland maps must include:

(a) Map name;

(b) Scale bar;

(c) Geographic reference to the Public Land Survey System;

- (d) Roads, with major roads named, and railroads;
- (e) Streams and stream names;
- (f) Artificially created wetlands and other waters labeled with their purpose (e.g. storm water pond);
- (g) Tax lot lines;

(h) Watershed boundaries at the 6th field Hydrologic Unit Code scale as defined by the US Geological Survey or finer;

(i) Legend that explains all map symbols, line work, and patterns;

(j) Map date (month and year final map prepared);

(k) All wetlands, clearly and accurately drawn and clearly identified by a unique wetland code that relates each wetland to field data forms, tables, databases, wetland summary sheets, and OFWAM summary forms;

(l) Cowardin classification(s) of each wetland per 141-086-0210(15a & 16);

(m) Disclaimer that reads: "Information shown on this map is for planning purposes, represents the conditions that exist at the map date, and is subject to change. The location and extent of wetlands and other waters is approximate. There may be unmapped wetlands and other waters present that are subject to regulation. A current Oregon Department of State Lands-approved wetland delineation is required for state removal-fill permits. You are advised to contact the Department of State Lands and the U.S. Army Corps of Engineers with any regulatory questions."

(n) Numbered sample plots; and

(o) Study area boundary as defined by the local government.

(4) Minimum map scale must be 1 inch = 200 feet (1:2,400).

Stat. Auth.: ORS 196.674 - 196.681 & 196.692 Stats. Implemented: ORS 196.668 - 196.692 Hist.: DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0225

Digital Data Standards

(1) A minimum of two sets of the final Department-approved LWI geospatial datasets must be prepared; one set must be provided to the Department for inclusion in the SWI and the other must be provided to the local government.

(2) A georeferenced ArcGIS compatible dataset with attribute tables and metadata must be developed for each of the following:

(a) Wetland polygons with a unique wetland identification label, Cowardin classification code(s) and modifiers, HGM classification, approximate wetland size, Locally Significant Wetland significance determination (if made), whether it was visually confirmed, and the Department's wetland delineation report file number, if any.

(b) Probable wetland points with PW label;

(c) Streams with unique identification labels and, where available, names;

(d) Other natural bodies of water with names;

(e) Artificially created wetlands and water features (such as irrigation canals and ditches, industrial ponds, log ponds, golf course features, and storm water detention ponds) uniquely identified and purpose of artificially-created feature, if known;

(f) Watershed boundaries (6th order Hydrologic Unit Code scale or finer);

(g) Study area boundary;

(h) Tax lot lines and numbers;

(i) Sample plot dataset with unique identification labels that correspond to the field data form; and

(j) Major streets with name labels.

(3) All georeferenced data sets must be projected using the Oregon Geographic Information Council-endorsed state standard: Oregon Lambert conformal conic (Datum: NAD 83; Units: International feet: 3.28084; Spheroid: GRS1980).

(4) Metadata must be completed for each layer, conform to the current Oregon Geographic Information Council Metadata Standard, and must include a disclaimer as described in OAR 141-086-0222(3m).

Stat. Auth.: ORS 273.045 Stats. Implemented: ORS 196.668 - 196.686 & 196.692 Hist.: DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0228

Review and Approval Process

(1) A draft of all the LWI products required in OAR 141-086-0210 through -0225 of these rules must be provided to the Department (if the inventory was not developed by the Department) and the local government(s) for review.

(2) The local government must provide opportunity for public review of and comment on the draft LWI products.

(3) Public and local government comments on draft LWI products must be provided to the Department. The Department will request in writing from the party responsible for preparing the LWI any revisions or additions required in order for the LWI to be approved.

(4) The Department will review final products to ensure that all changes requested by the Department have been adequately addressed.

(5) If the final LWI products meet the requirements in these rules, the Department will send a letter of approval to the local government.

Stat. Auth.: ORS 273.045 Stats. Implemented: ORS 196.668 - 196.686 & 196.692 Hist.: DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0230

Revisions

(1) A city or county may elect to or may be required by the Department of Land Conservation and Development (DLCD) to revise their LWI. An LWI revision consists of either expanding the study area of an existing LWI or incorporating new wetland location and information into an existing LWI study area. The provisions in subsections (a) through (d) must be followed when an LWI is being revised.

(a) All Urban Growth Boundary expansion areas or other areas not included in the original LWI study area must be inventoried according to the requirements in these rules. If the original LWI area is not updated at the same time, it may still be necessary to update the LWI area adjacent to the new LWI area in order to align wetlands that are continuous between the two areas.

(b) When an LWI is being updated, newly identified wetlands or wetland boundary changes equal to or greater than one half of an acre must be identified, mapped and assessed using OFWAM.

(c) Sources of information for review of the previous study area to update the LWI must at a minimum include:

(A) Wetland delineation reports approved by the Department or map errors verified by the Department after the date of the approved LWI;

(B) Aerial photos approved by the Department, taken within five years of inventory revision initiation; and

(C) A field reconnaissance of the study area.

(d) Wetlands not previously mapped on the LWI must be verified by establishing a sample plot or by visual confirmation as required in OAR 141-086-0210(7) and (8) of this rule; previously mapped wetlands no longer apparent on aerial photos must also be verified with a sample plot or visually confirmed as necessary to confirm their absence.

(2) A draft of the revised LWI products as required in OAR 141-086-0228(1) through (5) must be provided to the Department and is subject to Department review and approval.

(3) If the LWI was used as the basis for an approved WCP, the local jurisdiction must instead:

(a) Provide to the Department, as part of the annual report (OAR 141-086-0035), a revised map and report indicating wetlands filled and wetlands restored, enhanced or created for mitigation; and

(b) Every five years, in conjunction with the Department's five year WCP review (ORS 196.684(6)), conduct an LWI review and incorporate new information, as required in OAR 141-086-0230(1)(b) through (1)(d).

(4) Newly-identified wetlands as identified by a Department-approved wetland delineation report or a removal-fill permit must not be added to the Department-approved Local Wetlands Inventory map without following the procedures outlined by OAR 141-086-0230(1)(a) through (d).

(5) Refinements to the location, extent, and/or absence of wetlands mapped on the LWI, as identified by a Department-approved wetland delineation or a Department wetland determination report, may be made at any time through an administerial process, by annotating the approved LWI or by creating a separate geospatial dataset containing the boundary adjustments, preserving the approved LWI mapping.

Stat. Auth.: ORS 196.674 - 196.681 & 196.692 Stats. Implemented: ORS 196.668 - 196.692 Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94; DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

141-086-0240

Landowner Notification

(1) When the LWI is approved by the Department, the local jurisdiction must notify by mail within one hundred twenty (120) calendar days all landowners of record whose parcel contains or abuts a mapped wetland or probable wetland.

(2) The local jurisdiction must provide one copy of the landowner notification letter to the Department.

Stat. Auth.: ORS 196.674 - 196.681 & 196.692 Stats. Implemented: ORS 196.668 - 196.692 Hist.: LB 11-1991, f. & cert. ef. 11-15-91; LB 9-1994, f. & cert. ef. 12-15-94; DSL 2-2001, f. & cert. ef. 2-26-01; DSL 11-2008, f. 12-12-08, cert. ef. 1-1-09

IDENTIFYING SIGNIFICANT WETLANDS

141-086-0300

Purpose

ORS 197.279 (3) directs the Division of State Lands to establish these criteria and procedures for the identification of significant wetlands under Statewide Planning Goal 5. Local governments will use these technical standards to complete their planning responsibilities for wetlands, which are established by the Land Conservation and Development Commission (OAR 660-023-0100).

Stat. Auth.: ORS 273 .360 Stats. Implemented: ORS 197.299 Hist.: LB 7-1996, f. 12-13-96, cert. ef. 1-1-97

141-086-0310

Policy

To protect the state's wetland resources, the functions and services they provide, and all interests, it is important that clear and consistent criteria be used to identify significant wetlands for planning purposes.

Stat. Auth.: ORS 273 .360 Stats. Implemented: ORS 197.299 Hist.: LB 7-1996, f. 12-13-96, cert. ef. 1-1-97

141-086-0320

Uses and Applicability

(1) These rules provide standard criteria for local governments to use to meet their obligations for freshwater wetland planning as set forth by the Land Conservation and Development Commission (LCDC) in Goal 5. These rules do not address planning requirements for estuarine wetlands, which are covered under Statewide Planning Goal 16.

(2) Local governments shall apply the criteria for identifying locally significant wetlands (LSW). As specified in LCDC's Goal 5 rules (OAR 660-023-0100), the use of these criteria is required within urban growth boundaries (UGBs) and urban unincorporated communities (UUCs). The Goal 5 rules also authorize an option for counties to conduct detailed wetland planning in areas outside of UGBs and UUCs. Should a county choose to do so, the same rules and procedures as for UGBs and UUCs shall apply, including these criteria for significant wetlands.

(3) As provided by LCDC's Goal 5 rules (OAR Chapter 660, Division 23), local government planning and zoning responsibilities include the determination, designation, and protection of significant wetlands. A community that has identified significant wetlands prior to this rule should proceed under the provisions of OAR 660-023-0250.

Stat. Auth.: ORS 273 .360 Stats. Implemented: ORS 197.299 Hist.: LB 7-1996, f. 12-13-96, cert. ef. 1-1-97

141-086-0330

Definitions

(1) "Director" means the Director of the Division of State Lands or the Director's designee.

(2) "Division" means the Division of State Lands.

(3) "Indigenous Anadromous Salmonids" are chum, sockeye, Chinook and Coho salmon, and steelhead and cutthroat trout, that are members of the family Salmonidae and are listed as sensitive, threatened or endangered by a state or federal authority.

(4) "Inhabited by" means that a plant or animal species uses the site for rearing, feeding, or breeding or as a migration or dispersal corridor. This does not include incidental use of the site by an animal species.

(5) "Locally Significant Wetlands" or "LSW" are those wetland sites that provide functions or exhibit characteristics that are pertinent to community planning decisions made at a local scale, for example within a UGB. These wetland sites shall be identified by local governments according to the criteria and procedures in sections 141-086-0340 and 141-086-0350.

(6) "Native Plant Community" is used here to indicate a recognized assemblage of plant species indigenous to Oregon. All such wetland plant communities are listed in the most recent version of Classification and Catalog of Native Wetland Plant Communities in Oregon (Oregon Natural Heritage Program).

(7) "Rare Plant Community" is defined as relictual, uncommon or unique in Oregon, determined by number of occurrences and threats following national heritage program criteria (i.e., rarity ranking of G1-G3 or S1-S3). The most concise listing of wetland plant communities in Oregon that meet this standard for rarity is found in Appendix G of the Oregon Freshwater Wetland Assessment Methodology (Oregon Division of State Lands, 1996). The rarity rank of all wetland plant communities is also listed in the most recent version of Classification and Catalog of Native Wetland Plant Communities in Oregon Natural Heritage Program).

(8) "Wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Stat. Auth.: ORS 273 .360 Stats. Implemented: ORS 197.299 Hist.: LB 7-1996, f. 12-13-96, cert. ef. 1-1-97

141-086-0340

Procedures for Identifying Locally Significant Wetlands

(1) LSW criteria are applied by the local government.

(2) The following base information is required prior to applying the LSW criteria:

(a) An approved Local Wetlands Inventory (OAR 141-086-0110 through 141-086-0240) covering the plan area; and

(b) A function and quality assessment of all inventoried wetlands using the Oregon Freshwater Wetland Assessment Methodology (OFWAM; Oregon Division of State Lands, 1996). Functional assessment descriptors from OFWAM appear in quotation marks in section 146-086-0350 of these rules. An equivalent functional assessment methodology may be used, or adjustments may be made, upon written approval by the Director. If a different assessment methodology is approved, then equivalent terminology will be set out in the Division's letter of approval.

Stat. Auth.: ORS 273 .360 Stats. Implemented: ORS 197.299 Hist.: LB 7-1996, f. 12-13-96, cert. ef. 1-1-97

141-086-0350

Locally Significant Wetland Criteria

(1) Exclusions. Regardless of their standing in relation to the criteria in OAR 141-086-0350(2) or (3) of these rules, wetlands shall not be designated as locally significant if they fall within any one of the following categories:

(a) Wetlands artificially created entirely from upland that are:

(A) Created for the purpose of controlling, storing, or maintaining stormwater; or

(B) Active surface mining or active log ponds; or

(C) Ditches without a free and open connection to natural waters of the state (as defined in OAR 141-085-0010(9)) and which do not contain food or game fish (as defined in ORS 496.009); or:

(D) Less than one acre in size and created unintentionally as the result of:

(i) Irrigation water overflow or leakage; or

(ii) Construction activity not related to compensatory mitigation for permitted wetland impacts; or

(E) Of any size and created for the purpose of wastewater treatment, cranberry production, farm or stock watering, settling of sediment, cooling industrial water, or as a golf course hazard.

(b) Wetlands or portions of wetlands that are contaminated by hazardous substances, materials or wastes as per the following conditions:

(A) The wetland is documented as contaminated on either the U.S. Environmental Protection Agency's (EPA) National Priority List (NPL, also known as the "superfund list"), or the Department of Environmental Quality's (DEQ) Inventory of Hazardous Substance Sites (ORS 465.225).

(B) Only the portion of the wetland affected by such hazardous substances or wastes shall be excluded from the LSW analysis. Affected portions shall be delineated in consultation with EPA and DEQ, and shall include areas potentially disturbed by clean-up activities.

(C) Contaminated wetlands that have subsequently been removed from the NPL or DEQ Inventory following cleanup shall be re-evaluated under the LSW criteria at the next periodic review.

(2) Mandatory LSW Criteria. A local government shall identify a wetland as locally significant if it meets one or more of the following criteria:

(a) The wetland performs any of the following functions at the levels indicated below using the Oregon Freshwater Wetland Assessment Methodology:

- (A) "Diverse" wildlife habitat; or
- (B) "Intact" fish habitat; or
- (C) "Intact" water quality function; or
- (D) "Intact" hydrologic control function.

(b) The wetland or a portion of the wetland occurs within a horizontal distance less than one-fourth mile from a water body listed by the Department of Environmental Quality as a water quality limited water body (303 (d) list), and the wetland's water quality function is described as "intact" or "impacted or degraded" using OFWAM. The 303(d) list specifies which parameters (e.g., temperature, pH) do not meet state water quality standards for each water body. A local government may determine that a wetland is not significant under this subsection upon documentation that the wetland does not provide water quality improvements for the specified parameter(s).

(c) The wetland contains one or more rare plant communities, as defined in this rule.

(d) The wetland is inhabited by any species listed by the federal government as threatened or endangered, or listed by the state as sensitive, threatened or endangered, unless the appropriate state or federal agency indicates that the wetland is not important for the maintenance of the species.

(A) The use of the site by listed species must be documented, not anecdotal. Acceptable sources of documentation may include but are not limited to: field observations at the wetland sites during the local wetlands inventory and functional assessments, and existing information on rare species occurrences at agencies such as the Oregon Natural Heritage Program, Oregon Department of Fish and Wildlife, Oregon Department of Agriculture and the U.S. Fish and Wildlife Service.

(B) Input originating from other locally knowledgeable sources constitutes "documentation" if verified by one of the above agencies or a university or college reference collection.

(e) The wetland has a direct surface water connection to a stream segment mapped by the Oregon Department of Fish and Wildlife as habitat for indigenous anadromous salmonids, and the wetland is determined to have "intact" or "impacted or degraded" fish habitat function using OFWAM.

(3) Optional LSW Criteria. At the discretion of the local government, wetlands that meet one or more of the following criteria may be identified as locally significant wetlands:

(a) The wetland represents a locally unique native plant community: wetland is or contains the only representative of a particular native wetland plant community in the UGB/UUC, which is only applicable if the entire UGB/UUC is inventoried. To be identified as a LSW, such a wetland must also have been assessed to perform at least one of the following functions at the levels indicated below using OFWAM:

(A) Its wildlife habitat descriptor is either "provides diverse habitat", or "provides habitat for some wildlife species"; or

(B) Its fish habitat descriptor is either "intact", or "impacted or degraded"; or

(C) Its water quality function descriptor is either "intact", or "impacted or degraded"; or

(D) Its hydrologic control function descriptor is either "intact", or "impacted or degraded".

(b) The wetland is publicly owned and determined to "have educational uses" using OFWAM, and such use by a school or organization is documented for that site.

Stat. Auth.: ORS 273 .360 Stats. Implemented: ORS 197.299 Hist.: LB 7-1996, f. 12-13-96, cert. ef. 1-1-97

141-086-0370

Definitions

(1) "**Classification**" means the designation of wetlands into hydrogeomorphic classes and subclasses. For example, "riverine" would be one class of wetlands.

(2) "Director" means the Director of the Division of State Lands or the Director's designee.

(3) "Division" means the Division of State Lands.

(4) **"Functional Assessment"** means the process by which the capacity of a wetland to perform a certain function or group of functions is measured. Such functions would include but are not limited to: surface water storage, sediment removal, and maintenance of characteristic plant communities.

(5) The "**Hydrogeomorphic Method**" or "**HGM**" is a scientific method of wetland classification and functional assessment based on a wetland's location in the landscape and the sources and duration of water flow. The HGM approach identifies the wetland classes present in each region, defines the functions that each class of wetlands performs, and establishes reference sites to define the range of functioning of each wetland class.

(6) "**Outstanding State Wetlands**" or "**OSWs**" are reference standard wetlands identified within each Oregon region.

(7) **''Reference Standard Wetlands''** are one component of an HGM and, for the purposes of these rules, are those sites that best exhibit the highest sustainable level of functional capacity for the functions performed by the regional wetland class or subclass.

(8) **"Region"** means an ecosystem-based geographical subdivision of the state, such as the Level III and IV Ecoregions of Oregon (e.g., the Willamette Valley) mapped by the U. S. Environmental Protection Agency.

(9) "Wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Stat. Auth.: ORS 273 .045 & ORS 273 .051 Stats. Implemented: ORS 197.279(3), ORS 196.672 & ORS 196.674 Hist.: LB 4-1997, f. 4-15-97, cert. ef. 5-1-97

141-086-0380

Applicability

(1) These rules set forth the criteria and procedures by which the Division will identify outstanding state wetlands and provide the information to local governments. Due to the state's interest in OSWs and the expertise required for their identification, the Division is responsible for applying these rules.

(2) The Land Conservation and Development Commission will determine any local land use planning responsibilities regarding OSWs identified by the Division.

(3) OSWs identified according to these rules become part of the Statewide Wetlands Inventory.

Stat. Auth.: ORS 273 .045 & ORS 273 .051 Stats. Implemented: ORS 197.279(3), ORS 196.672 & ORS 196.674 Hist.: LB 4-1997, f. 4-15-97, cert. ef. 5-1-97

141-086-0390

Criteria and Procedures

(1) A wetland shall be identified as an OSW if it is judged by the Division to be a reference standard wetland as defined in sections 141-086-0370(7).

(2) The Division may convene one or more technical panel(s) of wetland scientists with expertise in wetland functions, wetland classification, and/or regional wetland types in Oregon. The technical panel(s) will assist the Division in developing the hydrogeomorphic classification and functional assessment method (HGM) for Oregon, identifying the regional wetland classes and subclasses, primary functions, and reference standard wetlands. The Oregon HGM will be developed in stages, region by region, as resources allow. The Oregon HGM will be developed in cooperation with the Army Corps of Engineers, Environmental Protection Agency, Natural Resources Conservation Service, state resource agencies, and others as appropriate, and will incorporate protocols developed by the U.S. Army Corps of Engineers Waterways Experiment Station (for example, Technical Report WRP-DE-9, R. D. Smith et al., 1995).

(3) Prior to designating a reference standard wetland as an OSW, the Division shall:

(a) Identify and map site boundaries;

(b) Develop management recommendations to conserve and protect the documented wetland functions of the site;

(c) Develop draft findings describing how the site has met the standards for an OSW;

(d) Provide public notice on the draft findings to the local government, affected landowners and land managers and other interested parties, and provide a 45-day public comment period;

(e) Hold at least one public meeting within the area of the proposed OSW(s) during the comment period; and

(f) Finalize the findings and site boundaries after consideration of public comment.

(4) The Division shall provide all maps, criteria findings and supporting information regarding an identified OSW to the appropriate local government(s) for their use in land use planning activities.

Stat. Auth.: ORS 273 .045 & ORS 273 .051 Stats. Implemented: ORS 197.279(3), ORS 196.672 & ORS 196.674 Hist.: LB 4-1997, f. 4-15-97, cert. ef. 5-1-97

Appendix B

Abbreviations and Definitions

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B.1. ABBREVIATIONS

AW00	Artificial Water number
BSC	Bear Creek South drainage basin
DEQ	Department of Environmental Quality
DLCD	Department of Land Conservation and Development
DSL	Department of State Lands
ESH	Essential Salmonid Habitat
ESU	Evolutionarily Significant Unit
°F	degrees Fahrenheit
FEMA	Federal Emergency Management Agency
GPS	global positioning system
Н	High (OFWAM function)
HGM	Hydrogeomorphic Method of Wetland Assessment
HUC	Hydrologic Unit Code
L	Low (OFWAM function)
LCDC	Land Conservation and Development Commission
LiDAR	light detection and ranging
LPC	Lone Pine Creek drainage basin
LSC	Larson Creek drainage basin
LSW	Locally Significant Wetland
LWI	Local Wetland Inventory
M	Medium (OFWAM function)
MWC	Midway Creek drainage basin
NHD	National Hydrography Dataset (supplied by USGS)
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
OAR	Oregon Administrative Rule
ODF	Oregon Department of Forestry
ODFW	Oregon Department of Fish and Wildlife
OFWAM	Oregon Freshwater Wetland Assessment Method
ORBIC	Oregon Biodiversity Information Center
P00	Plot number
PAB	Palustrine Aquatic Bed Wetland
PEM	Palustrine Emergent Wetland
PFO	Palustrine Forested Wetland
PSS	Palustrine Scrub-Shrub Wetland
PUB	Palustrine Unconsolidated Bottom Wetland
PW	Probable Wetland
SWCA	SWCA Environmental Consultants
UGB	Urban Growth Boundary
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
W00	Wetland number
WA00	Natural Waterbody number
WD	Wetland Delineation or Determination

B.2. DEFINITIONS

Wetlands

Wetlands are federally defined as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (Environmental Laboratory 1987). In other words, wetlands typically display three wetland criteria: a predominance of hydrophytic (wetland) vegetation, the presence of hydric (wet) soils, and wetland hydrology (ponding or near-surface saturated soils for at least 5% of the growing season; typically 11 to 14 consecutive days during the growing season (Environmental Laboratory 1987). The regional supplement manual (USACE 2010) provides a technical standard for water-table monitoring for highly disturbed or problematic sites. It states that wetland hydrology is present when 14 or more consecutive days of flooding or ponding, or a water table 12 inches or less below the soil surface, during the growing season at a minimum frequency of 5 years in 10 (50 percent or higher probability).

Goal 5

Goal 5 is one of Oregon's Statewide Planning Goals and Guidelines for Natural Resources, Scenic and Historic Areas, and Open Spaces (OAR 660-015-0000(5) and 660-023-0000). To protect natural resources and conserve scenic and historic areas and open spaces, local governments shall adopt programs that will protect natural resources and conserve scenic, historic, and open space resources for present and future generations. These resources promote a healthy environment and natural landscape that contributes to Oregon's livability. The following resources shall be inventoried:

- a. Riparian corridors, including water and riparian areas and fish habitat;
- b. Wetlands;
- c. Wildlife Habitat;
- d. Federal Wild and Scenic Rivers;
- e. State Scenic Waterways;
- f. Groundwater Resources;
- g. Approved Oregon Recreation Trails;
- h. Natural Areas;
- i. Wilderness Areas;
- j. Mineral and Aggregate Resources;
- k. Energy sources; and
- l. Cultural areas.

Following procedures, standards, and definitions contained in the Land Conservation and Development Commission rules, local governments shall determine significant sites for inventoried resources and develop programs to achieve the goal.

Goal 5 Safe Harbor provides an inventory method for riparian corridors, including water and riparian areas and fish habitat, wetlands, and wildlife habitat. A "safe harbor" approach allows local governments to identify "significant" habitats using the safe harbor criteria, which, for example, has required buffer setbacks from streams based on water flow and fish presence. The rule states:

As a safe harbor in order to address the requirements under OAR 660-023-0030, a local government may determine the boundaries of significant riparian corridors within its jurisdiction using a standard setback distance from all fish-bearing lakes and streams shown on ODF stream classification maps, USGS 7.5-minute quadrangle maps, NWI maps, ODFW maps indicating fish habitat, FEMA flood maps; and/or aerial photographs, as follows (<u>http://arcweb.sos.state.or.us/rules/OARS_600/OAR_660/660_023.html</u>):

(a) Along all streams with average annual stream flow greater than 1,000 cubic feet per second (cfs) the riparian corridor boundary shall be 75 feet upland from the top of each bank.

(b) Along all lakes, and fish-bearing streams with average annual stream flow less than 1,000 cfs, the riparian corridor boundary shall be 50 feet from the top of bank.

(c) Where the riparian corridor includes all or portions of a significant wetland as set out in OAR 660-023-0100, the standard distance to the riparian corridor boundary shall be measured from, and include, the upland edge of the wetland.

(d) In areas where the top of each bank is not clearly defined, or where the predominant terrain consists of steep cliffs, local governments shall apply OAR 660-023-0030 rather than apply the safe harbor provisions of this section.

B-3 COWARDIN WETLAND CLASSIFICATION (ADAPTED FROM COWARDIN ET AL., 1979)

Palustrine System (P)

Definition. The Palustrine System includes all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, and all such wetlands that occur in tidal areas where salinity due to ocean-derived salts is below 0.5 ‰. It also includes wetlands lacking such vegetation, but with all of the following four characteristics: (1) area less than 8 ha (20 acres); (2) active wave-formed or bedrock shoreline features lacking; (3) water depth in the deepest part of basin less than 2 m at low water; and (4) salinity due to ocean-derived salts less than 0.5 ‰.

Limits. The Palustrine System is bounded by upland or by any of the other four systems: Marine (ocean), Estuarine (estuary), Riverine (freshwater rivers and their tributaries), or Lacustrine (open water greater than 8 ha (20 acres) in size).

Description. The Palustrine System was developed to group the vegetated wetlands traditionally called by such names as marsh, swamp, bog, fen, and prairie, which are found throughout the United States. It also includes the small, shallow, permanent or intermittent water bodies often called ponds. Palustrine wetlands may be situated shoreward of lakes, river channels, or estuaries; on river floodplains; in isolated catchments; or on slopes. They may also occur as islands in lakes or rivers. The erosive forces of wind and water are of minor importance except during severe floods.

The emergent vegetation adjacent to rivers and lakes is often referred to as "the shore zone" or the "zone of emergent vegetation", and is generally considered separately from the river or lake. As an example, one researcher wrote in reference to riverine habitats, "We will not here consider the long list of emergent plants which may occur along the banks out of the current, as they do not belong, strictly speaking, to the running water habitat." There are often great similarities between wetlands lying adjacent to lakes or rivers and isolated wetlands of the same class in basins without open water.

Subsystems. None.

Classes. Rock Bottom, Unconsolidated Bottom, Aquatic Bed, Unconsolidated Shore, Moss-Lichen Wetland, Emergent Wetland, Scrub-Shrub Wetland, and Forested Wetland.

Classes

EMERGENT WETLAND (EM)

Definition. The Emergent Wetland Class is characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. These wetlands are usually dominated by perennial plants. All water regimes are included except subtidal and irregularly exposed.

Description. In areas with relatively stable climatic conditions, Emergent Wetlands maintain the same appearance year after year. In other areas, such as the prairies of the central United States, violent climatic fluctuations cause them to revert to an open water phase in some years. Emergent Wetlands are found throughout the United States and occur in all Systems except the Marine. Emergent Wetlands are known by many names, including marsh, meadow, fen, prairie pothole, and slough. Areas that are dominated by pioneer plants which become established during periods of low water are not Emergent Wetlands and should be classified as Vegetated Unconsolidated Shores or Vegetated Streambeds.

Subclasses and Dominance Types:

<u>Persistent (1).</u> Persistent Emergent Wetlands are dominated by species that normally remain standing at least until the beginning of the next growing season. This Subclass is found only in the Estuarine and Palustrine Systems.

Persistent Emergent Wetlands dominated by saltmarsh cordgrass (*Spartina alterniflora*), saltmeadow cordgrass (*S. patens*), big cordgrass (*S. cynosuroides*), needlerush (*Juncus roemerianus*), narrowleaved cattail (*Typha angustifolia*), and southern wild rice (*Zizaniopsis miliacea*) are major components of the Estuarine systems of the Atlantic and Gulf Coasts of the United States. On the Pacific Coast, common pickleweed (*Salicornica virginica*), sea blite (*Suaeda californica*), arrow grass (*Triglochin maritimum*), and California cordgrass (*Spartina foliosa*) are common dominants.

Palustrine Persistent Emergent Wetlands contain a vast array of grass-like plants such as cattails (*Typha* spp.), bulrushes (*Scirpus* spp.), saw grass (*Cladium jamaicense*), sedges (*Carex* spp.); and true grasses such as reed (*Phragmites australis*), manna grasses (*Glyceria* spp.), slough grass (*Beckmannia syzigachne*), and whitetop (*Scolochloa festucacea*). There is also a variety of broadleaved persistent emergents such as purple loosestrife (*Lythrum salicaria*), dock (*Rumex mexicanus*), waterwillow (*Decodon verticillatus*), and many species of smartweeds (*Polygonum*).

<u>Nonpersistent (2)</u>. Wetlands in this Subclass are dominated by plants which fall to the surface of the substrate or below the surface of the water at the end of the growing season so that, at certain seasons of the year, there is no obvious sign of emergent vegetation. For example, wild rice (*Zizania aquatica*) does not become apparent in the North Central States until midsummer and fall, when it may form dense emergent stands. Nonpersistant emergents also include species such as arrow arum (*Peltandra virginica*), pickerelweed (*Pontederia cordata*), and arrowheads (*Sagittaria* spp.). Movement of ice in Estuarine, Riverine, or Lacustrine Systems often removes all traces of emergent vegetation during the winter. Where this occurs the area should be classified as Nonpersistant Emergent Wetland.

SCRUB-SHRUB WETLAND (SS)

Definition. The Class Scrub-Shrub Wetland includes areas dominated by woody vegetation less than 6 meters (m [20 feet]) tall. The species include true shrubs, young trees, and trees or shrubs that are small or stunted because of environmental conditions. All water regimes except subtidal are included.

Description. Scrub-Shrub Wetlands may represent a successional stage leading to Forested Wetland, or they may be relatively stable communities. They occur only in the Estuarine and Palustrine Systems, but are one of the most widespread classes in the United States. Scrub-Shrub Wetlands are known by many names, such as shrub swamp, shrub carr, bog, and pocosin. For practical reasons the class also includes forests composed of young trees less than 6 m tall.

Subclasses and Dominance Types:

<u>Broad-leaved Deciduous (1).</u> In Estuarine System Wetlands the predominant deciduous and broadleaved trees or shrubs are plants such as sea-myrtle (*Baccharis halimifolia*) and marsh elder (*Iva frutescens*). In the Palustrine System typical Dominance Types are alders (*Alnus* spp.), willows (*Salix* spp.), buttonbush (*Cephalanthus occidentalis*), red-osier dogwood (*Cornus stolonifera*), honeycup (*Zenobia pulverulenta*), spirea (*Spiraea douglasii*), bog birch (*Betula pumila*), and young trees of species such as red maple (*Acer rubrum*) or black spruce (*Picea mariana*).

<u>Needle-leaved Deciduous (2).</u> This Subclass, consisting of wetlands where trees or shrubs are predominantly deciduous and needleleaved, is represented by young or stunted trees such as tamarack or bald cypress (*Taxodium distichum*).

<u>Broad-leaved Evergreen (3).</u> In the Estuarine System, vast wetland acreages are dominated by mangroves (*Rhizophora mangle, Languncularia racemosa, Conocarpus erectus*, and *Avicennia germinans*) that are less than 6 m tall. In the Palustrine System, the broad-leaved evergreen species are typically found on organic soils. Northern representatives are labrador tea (*Ledum groenlandicum*), bog rosemary (*Andromeda glaucophylla*), bog laurel (*Kalmia polifolia*), and the semi-evergreen leatherleaf (*Chamaedaphne calyculata*). In the south, fetterbush (*Lyonia lucida*), coastal sweetbells (*Leucothoe axillaris*), inkberry (*Ilex glabra*), and the semi-evergreen black ti-ti (*Cyrilla racemiflora*) are characteristic broad-leaved evergreen species.

<u>Needle-leaved Evergreen (4)</u>. The dominant species in Needle-leaved Evergreen Wetlands are young or stunted trees such as black spruce or pond pine (*Pinus serotina*).

<u>Dead (5).</u> Dead woody plants less than 6 m tall dominate Dead Scrub-Shrub Wetlands. These wetlands are usually produced by a prolonged rise in the water table resulting from impoundment of water by landslides, man, or beavers. Such wetlands may also result from various other factors such as fire, salt spray, insect infestation, air pollution, and herbicides.

FORESTED WETLAND (FO)

Definition. The Class Forested Wetland is characterized by woody vegetation that is 6 m tall or taller. All water regimes are included except subtidal.

Description. Forested Wetlands are most common in the eastern United States and in those sections of the West where moisture is relatively abundant, particularly along rivers and in the mountains. They occur only in the Palustrine and Estuarine Systems and normally possess an overstory of trees, an understory of young trees or shrubs, and an herbaceous layer. Forested Wetlands in the Estuarine System, which include the mangrove forests of Florida, Puerto Rico, and the Virgin Islands, are known by such names as

swamps, hammocks, heads, and bottoms. These names often occur in combination with species names or plant associations such as cedar swamp or bottomland hardwoods.

Subclasses and Dominance Types:

<u>Broad-leaved Deciduous (1).</u> Dominant trees typical of Broadleaved Deciduous Wetlands, which are represented throughout the United States, are most common in the South and East. Common dominants are species such as red maple, American elm (*Ulmus americana*), ashes (*Fraxinus pennsylvanica* and *F. nigra*), black gum (*Nyssa sylvatica*), tupelo gum (*N. aquatica*), swamp white oak (*Quercus bicolor*), overcup oak (*Q. lyrata*), and basket oak (*Q. michauxii*). Wetlands in this subclass generally occur on mineral soils or highly decomposed organic soils.

<u>Needle-leaved Deciduous (2)</u>. The southern representative of the Needle-leaved Deciduous Subclass is bald cypress (*Taxodium distichum*), which is noted for its ability to tolerate long periods of surface inundation. Tamarack is characteristic of the Boreal Forest Region, where it occurs as a dominant on organic soils. Relatively few other species are included in this Subclass.

<u>Broad-Leaved Evergreen (3).</u> In the Southeast, Broadleaved Evergreen Wetlands reach their greatest development. Red bay (*Persea borbonia*), loblolly bay (*Gordonia lasianthus*), and sweet bay (*Magnolia virginiana*) are prevalent, especially on organic soils. This Subclass also includes red mangrove, black mangrove (*Avicennia germinans*), and white mangrove (*Languncularia racemosa*), which are adapted to varying levels of salinity.

<u>Needle-leaved Evergreen (4).</u> Black spruce, growing on organic soils, represents a major dominant of the Needle-leaved Evergreen Subclass in the North. Though black spruce is common on nutrient poor soils, Northern white cedar (*Thuja occidentalis*) dominates northern wetlands on more nutrient rich sites. Along the Atlantic Coast, Atlantic white cedar (*Chamaecyparis thyoides*) is one of the most common dominants on organic soils. Pond pine is a common needle-leaved evergreen found in the Southeast in association with dense stands of broad-leaved evergreen and deciduous shrubs.

<u>Dead (5).</u> Dead Forested Wetlands are dominated by dead woody vegetation taller than 6 m (20 feet). Like Dead Scrub-Shrub Wetlands, they are most common in, or around the edges of, man-made impoundments and beaver ponds. The same factors that produce Dead Scrub-Shrub Wetlands produce Dead Forested Wetlands.

AQUATIC BED AND UNCONSOLIDATED BOTTOM (AB / UB)

Definition. The Class Aquatic Bed includes wetlands and deepwater habitats dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Water regimes include subtidal, irregularly exposed, regularly flooded, permanently flooded, intermittently exposed, semi-permanently flooded, and seasonally flooded.

Description. Aquatic Beds represent a diverse group of plant communities that requires surface water for optimum growth and reproduction. They are best developed in relatively permanent water or under conditions of repeated flooding. The plants are either attached to the substrate or float freely in the water above the bottom or on the surface.

UNCONSOLIDATED BOTTOM (UB)

Definition. The Class Unconsolidated Bottom includes all wetland and deepwater habitats with at least 25% cover of particles smaller than stones, and a vegetative cover less than 30%. Water regimes are restricted to subtidal, permanently flooded, intermittently exposed, and semi-permanently flooded.

Description: Unconsolidated Bottoms are characterized by the lack of large stable surfaces for plant and animal attachment. They are usually found in areas with lower energy than Rock Bottoms and may be very unstable. Exposure to wave and current action, temperature, salinity, and light penetration determines the composition and distribution of organisms. Most macroalgae attach to the substrate by means of basal hold-fast cells or discs; in sand and mud, however, algae penetrate the substrate and higher plants can successfully root if wave action and currents are not too strong. Most animals in unconsolidated sediments live within the substrate, e.g., *Macoma* and the amphipod *Melita*. Some, such as the polychaete worm *Chaetopterus*, maintain permanent burrows, and others may live on the surface, especially in coarse-grained sediments.

In the Marine and Estuarine Systems, Unconsolidated Bottom communities are relatively stable. They vary from the Arctic to the tropics, depending largely on temperature, and from the open ocean to the upper end of the estuary, depending on salinity.

In the Riverine System, the substrate type is largely determined by current velocity, and plants and animals exhibit a high degree of morphologic and behavioral adaptation to flowing water. Certain species are confined to specific substrates and some are at least more abundant in one type of substrate than in others. One researcher commented "The larger the stones, and hence the more complex the substratum, the more diverse is the invertebrate fauna."

In the Lacustrine and Palustrine Systems, there is usually a high correlation, within a given water body, between the nature of the substrate and the number of species and individuals. For example, in the profundal bottom of eutrophic lakes where light is absent, oxygen content is low, and carbon dioxide concentration is high, the sediments are ooze-like organic materials and species diversity is low. Each substrate type typically supports a relatively distinct community of organisms.

NONTIDAL WATER REGIME MODIFIERS

Though not influenced by oceanic tides, nontidal water regimes may be affected by wind or seiches in lakes. Water regimes are defined in terms of the growing season, which we equate to the frost-free period. The rest of the year is defined as the dormant season, a time when even extended periods of flooding may have little influence on the development of plant communities.

<u>Permanently Flooded (H).</u> Water covers the land surface throughout the year in all years. Vegetation is composed of obligate hydrophytes.

Intermittently Exposed (Z). Surface water is present throughout the year except in years of extreme drought.

<u>Semi-permanently Flooded (F).</u> Surface water persists throughout the growing season in most years. When surface water is absent, the water table is usually at or very near the land surface.

<u>Seasonally Flooded (C)</u>. Surface water is present for extended periods especially early in the growing season, but is absent by the end of the season in most years. When surface water is absent, the water table is often near the land surface.

<u>Saturated (B).</u> The substrate is saturated to the surface for extended periods during the growing season, but surface water is seldom present.

<u>Temporarily Flooded (A).</u> Surface water is present for brief periods during the growing season, but the water table usually lies well below the soil surface for most of the season. Plants that grow both in uplands and wetlands are characteristic of the temporarily flooded regime.

<u>Intermittently Flooded (J).</u> The substrate is usually exposed, but surface water is present for variable periods without detectable seasonal periodicity. Weeks, months, or even years may intervene between periods of inundation. The dominant plant communities under this regime may change as soil moisture conditions change. Some areas exhibiting this regime do not fall within our definition of wetland because they do not have hydric soils or support hydrophytes.

<u>Artificially Flooded (K).</u> The amount and duration of flooding is controlled by means of pumps or siphons in combination with dikes or dams. The vegetation growing on these areas cannot be considered a reliable indicator of water regime. Examples of artificially flooded wetlands are some agricultural lands managed under a rice-soybean rotation, and wildlife management areas where forests, crops, or pioneer plants may be flooded or dewatered to attract wetland wildlife. Neither wetlands within or resulting from leakage from man-made impoundments, nor irrigated pasture lands supplied by diversion ditches or artesian wells, are included under this modifier.

SPECIAL MODIFIERS

Many wetlands and deepwater habitats are man-made, and natural ones have been modified to some degree by the activities of man or beavers. Since the nature of these modifications often greatly influences the character of such habitats, special modifying terms have been included here to emphasize their importance. The following modifiers should be used singly or in combination wherever they apply to wetlands and deepwater habitats.

Excavated (x)

Lies within a basin or channel excavated by man.

Impounded (h)

Created or modified by a barrier or dam which purposefully or unintentionally obstructs the outflow of water. Both man-made dams and beaver dams are included.

Diked (h)

Created or modified by a man-made barrier or dike designed to obstruct the inflow of water.

Partially drained/ditched (d)

The water level has been artificially lowered, but the area is still classified as wetland because soil moisture is sufficient to support hydrophytes. Drained areas are not considered wetlands if they can no longer support hydrophytes.

Farmed (f)

The soil surface has been mechanically or physically altered for production of crops, but hydrophytes will become reestablished if farming is discontinued.

Artificial substrate (r)

Refers to substrates classified as Rock Bottom, Unconsolidated Bottom, Rocky Shore, and Unconsolidated Shore that were emplaced by man, using either natural materials such as dredge spoil or synthetic materials such as discarded automobiles, tires, or concrete. Jetties and breakwaters are examples of Artificial Rocky Shores. Man-made reefs are an example of Artificial Rock Bottoms.

B-4 HGM WETLAND CLASSIFICATION - KEY TO OREGON SUBCLASSES

(Key from the Guidebook for Hydrogeomorphic (HGM)–based Assessment of Oregon Wetland and Riparian Sites: Statewide Classification and Profiles by Adamus, P.R. 2001)

<u>Note</u>: Frequently, areas belonging to one HGM subclass will be situated within or adjacent to an area belonging to another HGM subclass. Normally, each area should be assessed separately. However, for practical purposes the areas may be combined into one site (assessment unit) if the smaller of the two areas comprises less than 20% of their total combined acreage. An example is a perennial channel (Riverine Flow-through subclass) that bisects an ash swale (Slope subclass) and which, even including the channel's 2-year floodplain, occupies less than 20% of their combined acreage. In this example, for most purposes the entire site should be classified as Slope.

Exposed at least annually to tidal surface water. Note that salinity is not considered in this determination.
 YES: Estuarine class, go to 2 (Note that salinity is not considered in this determination).
 NO: Go to 3

2. Site receives significant marine-sourced water during all or part of the year. Often located within or along the fringes of a major estuarine embayment or a slough off the embayment, rather than adjacent to a narrower tidal river channel. Typically located within zones classified as "Marine" or "Brackish" on maps published by Hamilton (1984), the National Estuarine Inventory (NOAA 1988), and/or as "Estuarine" on maps of the National Wetland Inventory. The site and its immediate receiving waters have one or more of the following indicators suggestive of marine water: barnacles, stranded seaweed, salt marsh plant species, springtide high tide minimum salinities of >5 ppt, or a preponderance (in adjacent flats) of rounded sediment particles indicative of recent marine-derived sediments

YES: Estuarine Marine-sourced (EMS) subclasses (High Marsh EMS and Low Marsh EMS) NO: Estuarine River-sourced (EMR) subclass

3. Closely associated with a channel or floodplain. Upland wetted edge of site expands at least once every other year (biennial flood) primarily as a result of overbank flow, channel inflow, or pumped water from a nearby and/or connected or bisecting channel. Includes active (2-yr) floodplain wetlands, sloughs, and riparian areas.

On NWI maps, includes many sites labeled R or PUB, PEM, PSS, or PFO with –A, –C, -F, or -H water regime codes appended, and others.

YES: **Riverine** class, Go to 4 NO: Go to 5

4. Water throughout most of site flows visibly during most of wet season. The site may be a channel, an island in a channel, or border a channel or ditch. It should include any channel to the 2 m depth. It often bisects or is bordered by a wetland in another HGM subclass.

YES: Riverine Flow-through (RFT) subclass, Figure 2

Includes scoured floodplains with no seasonal ponding of flood water, wetlands that comprise entire islands within channels, and some ditches and channels.

NO: Riverine Impounding (RI) subclass, Figure 2

Includes sloughs connected (seasonally or permanently) to main channels, channels dammed by beavers or humans (such wetlands may be broader at their downhill/ outlet side), wetlands sustained primarily by water diverted or pumped from offsite channels, river alcoves with seasonally stagnant conditions, and depressions or temporarily ponded areas within active biennial floodplains.

5. Consists mostly of permanent or seasonal standing water with pH>8. Situated in a depression or lake basin without an outlet channel. Includes areas that are shallower than 2 m during annual maximum inundation.

YES: **Depressional Alkaline (DA)** subclass NO: Go to 6

- 6. Located on margin of or within a lake, i.e., a body of permanent standing water that is deeper than 2 m over an area of >8 hectares (20 acres).
 On NWI maps, includes most sites labeled "L" and others with -A, -C, -F, or -H water regime codes that border an L site.
 YES: Lacustrine Fringe class, go to 7 NO: Go to 8
- Located in headwater position (i.e., closer to a region's major drainage divides than to lowlands in the region) and usually higher than the mean elevation of the region¹.
 YES: Lacustrine Fringe Headwater (LFH) subclass
 NO: Lacustrine Fringe Valley (LFV) subclass
- 8. Consists of >10% cover of Sphagnum moss over an area of >0.25 acre, and has a mean annual water pH of <5.5. Usually situated in a depression with little if any standing water. YES: Depressional Bog (DB) subclass NO: Go to 9
- 9. Lacks permanent inlet channel. Has a surface water outlet that connects to a permanent river or lake less than once every 2 years. Not located on a noticeable slope. Water level fluctuations are mainly in response to runoff and direct precipitation. YES: **Depressional Outflow (DO)** subclass NO: Go to 10
- 10. Located on, or near base of, a slope, but the slope may be barely perceptible. Inlet channel absent or very short. Outlet channel frequently present. Downhill-flowing sheet flow may be visible at land surface, especially during wet months. Downhill side of site sometimes partly blocked by berm or dam (natural or manmade). Fed by runoff and precipitation but with a proportionally large (compared with other wetlands) component of lateral subsurface flow or discharging groundwater. Soil moisture (and surface water, if present and shallow) tends to persist more into the summer than in other wetlands of similar size, depth, climate, and soil type. Ratio of wetland surface area to area of the apparently contributing watershed is relatively large. Includes springs, seeps, sites sustained in summer mainly by seepage (not runoff) from upslope irrigated fields, some sites with water impounded seasonally by push-up dams at their downhill side, and some ash swales. On NWI maps, includes many sites labeled PEM, PSS, or PFO with –B water regime codes, and less often with –A, -C, or –F codes. YES: **Slope** class, Go to 11 NO: Go to 12.

¹ Approximate mean elevations of regions (in meters): Blue Mountains= 1351, Basin & Range= 1515, Columbia Basin= 539, Coast/Range= 256, East Cascades Slope= 1435, Klamath Mountains= 734, High Lava Plains= 1179, Owyhee Uplands= 1269, West Cascade Slope= 1037, Western Interior (Willamette) Valley= 191.

11. Outlet channel is present (but may be small and partly dammed by beaver, roads, slides). Slope may be slight but is always noticeable. No inlet channel. Located in topographically high or intermediate positions such as stream heads, montane wet meadows, avalanche chutes. Usually closer to a region's major drainage divides than to lowlands in the region, and usually higher than the average elevation of the region.

YES: Slope Headwater (SH) NO: Slope Valley (SV)

12. Fed mainly by direct precipitation, secondarily by lateral subsurface flow or surface runoff. Precipitation may be "ponded" at the site due to surrounding natural levees, ridge-swale topography, humocks or constructed dikes; and/or due to soils with subsurface layers that strongly impede infiltration; and/or due to high water table due to subsurface seepage from nearby river, lake, or irrigated fields. Usually in a shallow (<2 ft.) basin situated on a broad flat terrace. Includes wet prairie, wet wooded flats, some fens and some ash swales. On NWI maps, includes many sites labeled PUS, PEM, PFO, or PSS with –A, -B, or -C water regime codes.

YES: Flats class. No subclasses defined yet.

Many are inundated only seasonally. Altered (diked) flats sites may function similar to depressional class sites, but their only significant water comes from runoff from dike surfaces and precipitation. NO: **Depressional class**, Go to 13

Fed mainly by overland runoff (sheet flow) which enters from all 3 or 4 compass directions, and/or by stormwater pipes, drainage ditches. Usually in a deep (>2 ft.) basin, which may have been deepened by excavation. Usually is inundated permanently. Often in natural depressions in rolling or mountainous terrain. On NWI maps, includes many of the sites labeled PUB or PAB, some L, and a few others.

13. More than 0.25 acre of standing water remains in the basin during the driest season of most years. YES: **Depressional Closed Permanent (DCP)** subclass

B-5 OFWAM FUNCTIONS

<u>Diverse Wildlife Habitat</u>. Two or more Cowardin wetland classes (i.e., Forested, Scrub-Shrub, Emergent) are present; woody vegetation is the dominant wetland vegetation cover type; there is high interspersion among Cowardin classes; more than 1 acre of open water is present; the wetland is connected to other wetlands or bodies of water by surface water (stream, lake, pond, ditch, or culvert); no upstream or adjacent stream reaches are listed as water quality limited; the dominant existing land use within 500 feet of the wetland's edge is exclusive forest use or open space; and greater than 40% of the wetland's edge is bordered by a vegetated buffer at least 25 feet wide.

<u>Intact Fish Habitat.</u> More than 75% of the stream is shaded by stream-side (riparian) vegetation; the stream is in a natural channel, or modified portions of the stream are returning to a natural channel; more than 25% of the entire stream contains instream structures such as large woody debris, floating submerged vegetation, large rocks, or boulders; no upstream or adjacent stream reaches are listed as water quality limited; the dominant existing land use within 500 feet of the wetland's edge is exclusive forest use or open space; and salmon, trout or sensitive species are present in a stream, lake or pond associated with the wetland at some time during the year.

<u>Intact Water Quality Protection.</u> The wetland's primary source of water is surface flow, including streams and ditches, or precipitation; there is evidence of flooding or ponding during a portion of the growing season; wetland vegetation cover is greater than 60%; the wetland is greater than 5 acres in size or is between 0.5 acre and 5 acres in size and is connected to other wetlands within a 3-mile radius by surface water (stream, ditch, canal or lake); the dominant existing land use within 500 feet of the wetland's edge

is developed uses or agriculture; and one or more upstream or adjacent stream reaches are listed as water quality limited.

<u>Intact Hydrologic Control.</u> The wetland is located within the 100-year floodplain or within an enclosed basin; there is evidence of flooding or ponding during a portion of the growing season; the wetland is greater than 5 acres in size; waterflow out of the wetland is restricted (beaver dam, concrete structure, undersized culvert) or the wetland has no outlet; woody vegetation is the dominant wetland vegetation cover type; the dominant existisng land use within 500 feet of the wetland on the downstream or downslope edge of the wetland is developed uses; and the dominant land use in the watershed upstream from the assessment area is urban or urbanizing.

Appendix C

Vegetation List and Sample Plot Data Forms

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City	or Medford Urban Reserve Local	Wetland Inventory	
, , , , , , , , , , , , , , , , , , ,	Vegetation List	,	
	April 6-9 and 20-23, 20	15	
Common Name	Scientific Name	Wetland Indicator Status	Native and Invasive, Noxious
WETLANDS			L
American deerweed	Acmispon americanus	FACU	native
spreading bent	Agrostis stolonifera	FAC	native
field meadow-foxtail	Alopecurus pratensis	FAC	non-native
clustered field sedge	Carex praegracilis	FACW	native
Fuller's teasel	Dipsacus fullonum	FAC	invasive
needle spike-rush	Eleocharis acicularis	OBL	native
common spike-rush	Eleocharis palustris	OBL	native
fescue	Festuca species	FAC to NOL	-
Baltic rush	Juncus balticus	FACW	native
lamp rush	Juncus effusus	FACW	native
spreading rush	Juncus patens	FACW	native
garden bird's-foot-trefoil	Lotus corniculatus	FAC	non-native
toothed medick	Medicago polymorpha	FACU	non-native
reed canary grass	Phalaris arundinacea	FACW	invasive
balsam poplar	Populus balsamifera	FAC	native
creeping buttercup	Ranunculus repens	FAC	non-native
Himalayan blackberry	Rubus armeniacus	FACU	invasive, noxious
Scouler's willow	Salix scouleriana	FAC	native
Lemmon's willow	Salix lemmonii	FACW	native
tall false rye grass / tall fescue	Schedonorus arundinaceus	FAC	non-native
broad-leaf cat-tail	Typha latifolia	OBL	native
neckweed	Veronica peregrina	OBL	native
vetch	Vicia species	FAC to UPL	-
UPLANDS			L
American deerweed	Acmispon americanus	FACU	native
spreading bent	Agrostis stolonifera	FAC	native
wild onion or wild garlic	Allium species	OBL to NOL	-
field meadow-foxtail	Alopecurus pratensis	FAC	non-native
ripgut brome	Bromus diandrus	NOL	non-native
small camas	Camassia quamash	FACW	native
hairy bittercress	Cardamine hirsuta	FACU	non-native
clustered field sedge	Carex praegracilis	FACW	native
bull thistle	Cirsium vulgare	FACU	invasive, noxious
poison-hemlock	Conium maculatum	FAC	noxious
tufted hair grass	Deschampsia caespitosa	FACW	native
Fuller's teasel	Dipsacus fullonum	FAC	invasive
filaree	Erodium cicutarium	NOL	non-native
fescue	Festuca species	FAC to NOL	-
cutleaf geranium	Geranium dissectum	NOL	non-native
dovefoot geranium	Geranium molle	NOL	non-native
prickly lettuce	Lactuca serriola	FACU	non-native
great Basin lyme grass	Leymus cinereus	FAC	native

Common Name	Scientific Name	Wetland Indicator Status	Native and Invasive, Noxious
		Status	NOXIOUS
two-color lupine	Lupinus bicolor	NOL	native
toothed medick	Medicago polymorpha	FACU	non-native
reed canary grass	Phalaris arundinacea	FACW	invasive
English plantain	Plantago lanceolata	FACU	non-native
bulbous blue grass	Poa bulbosa	FACU	non-native
bluegrass	Poa species	FAC ?	-
sagebrush buttercup	Ranunculus glaberrimus	FACU	native
creeping buttercup	Ranunculus repens	FAC	non-native
Himalayan blackberry	Rubus armeniacus	FACU	invasive, noxious
curly dock	Rumex crispus	FAC	non-native
tall false rye grass / tall fescue	Schedonorus arundinaceus	FAC	non-native
red clover	Trifolium pratense	FACU	non-native
white clover	Trifolium repens	FAC	non-native
broad-leaf cat-tail	Typha latifolia	OBL	native
neckweed	Veronica peregrina	OBL	native
Persian speedwell	Veronica persica	NOL	non-native
American purple vetch	Vicia americana	FAC	native
tiny vetch	Vicia hirsuta	NOL	non-native
vetch	Vicia species	FAC to UPL	-
desert fescue	Vulpia microstachys	NOL	native

 Wetland Indicator Status and taxonomy for the Western Mountains, Valleys, and Coast Region per the National Wetland Plant List 2014v1.

 Accessed April 2015.

 http://rsgisias.crrel.usace.army.mil/NWPL/

Native per Hitchcock & Cronquist 1973 and Invasive per Clean Water Services 2008: Noxious per ODA 2015: http://rsgisias.crrel.usace.army.mil/NWPL/ http://plants.usda.gov/ http://www.cleanwaterservices.org/PermitCenter/DesignAndConstruction/default.aspx http://www.oregon.gov/ODA/PLANT/WEEDS/lists.shtml

WETLAND INDICATOR STATUS (WIS)	
OBL	Obligate Wetland Plant – Almost always occurs in wetlands (hydrophyte), rarely in uplands
FACW	Facultative Wetland Plant - Usually occur in wetlands (hydrophyte), but may occur found in non-wetlands
FAC	Facultative Plant – Occurs in wetlands (hydrophyte) and uplands (nonhydrophyte)
FACU	Facultative Upland Plant - Usually occur in non-wetlands (non-hydrophyte), but may occur in wetlands
UPI	Upland Plant - Almost always occurs in uplands (non-hydrophyte), almost never occurs in wetlands. UPL plants have a WIS in other regions
NOL	Not Listed - Plants that are not on the National Wetland Plant List are assumed to be UPL and have no WIS in any region

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

Project/Site: N	ledford Urban Reserve LWI		City/County:	Medford UR	/ Jackson	Sampling Date: 4/6/2	:015
Applicant/Owner:	City of Medford				State: OR	Sampling Point:	P01
Investigator(s):	Clare Kenny, Taya K. MacLo	ean, C. Mirth Walke	r Section, T	ownship, Rang	e: Section 34, T37S, R	1W	
Landform (hillslope	, terrace, etc.): terrace			Local relief	(concave, convex, none):	concave Slope ((%): 3
Subregion (LRR):	A, Northwest Forests and C	oast l	at: 42.302070	 Lon	g: -122.813100	Datum: NAD	1983
Soil Map Unit Nan	ne: Unit 33: Coker cla	ay			NWI	classification: none	
Are climatic / hydr	ologic conditions on the site t	ypical for this time of	of year?	Ye	es X No	(If no, explain in	Remarks)
Are Vegetation		, or Hydrology	significantly	disturbed? A	Are "Normal Circumstar	nces" present? Yes	X No
Are Vegetation	,Soil	, or Hydrology	naturally pro		If needed, explain any		
SUMMARY O	F FINDINGS – Attach	•	ing sampling	point locat	ions, transects, i	mportant features	s, etc.
Hydrophytic Vege	etation Present?	Yes X	No				
Hydric Soil Prese	nt?	Yes X	No	Is the Samp			
Wetland Hydrolog		Yes <u>X</u>	No	within a We	etland? Yes	<u>X No</u>	
Precipitation prior	to fieldwork: Dry spring e	evaluation					
Remarks: PFM wetland loca	ted in flood irrigated pasture -	Wetland W01 Sig	natures visible o	n multiple imag	erv		
		Wettand Wett. Olg		in multiple imag	ory.		
VEGETATION							
		Absolute	Dominant	Indicator	Dominance Test w	orksheet:	
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	Status	Number of Dominar	nt Species	
1.					That Are OBL, FAC	W, or FAC: 1	(A)
2.							
3.					Total Number of Do	minant	
4.					Species Across All	Strata: 1	(B)
			Total Cover				
Sapling/Shrub Str	atum (Plot size: <u>10' r</u>)			Percent of Dominan	it Species	
1.					That Are OBL, FAC	W, or FAC: <u>100%</u>	<u>∕∘</u> (A/B)
2.					Prevalence Index v		
3.					Total % Cover	of: Multiply by:	
4.					OBL species	<u>10 x 1 =</u>	10
5.					FACW species	5 x 2 =	10
		0% =	Total Cover		FAC species	80 x 3 =	240
Herb Stratum	(Plot size: <u>5' r</u>)				FACU species	0 x 4 =	0
1. Alopecurus p	ratensis	70%	Yes	FAC	UPL species	0 x 5 =	0
2. Agrostis stold	onifera	10%	No	FAC	Column Totals:	95 (A)	260 (B)
3. Eleocharis ad	cicularis	10%	No	OBL	Prevalence Inde	x = B/A = 2.7	<u>74</u>
4. Carex praegra	acilis	5%	No	FACW	Hydrophytic Veget	ation Indicators:	
5.					1 - Rapid Test fo	or Hydrophytic Vegetat	tion
6.					X 2 - Dominance	Test is >50%	
7.					X 3 - Prevalence I	ndex is ≤3.0 ¹	
8.					4 - Morphologica	al Adaptations ¹ (Provid	le supporting
9.					data in Rema	arks or on a separate s	sheet)
10.					5 - Wetland Nor	n-Vascular Plants ¹	
11.					Problematic Hyd	drophytic Vegetation ¹ (Explain)
			Total Cover		¹ Indicators of hydric	soil and wetland hydro	ology must
Woody Vine Strat	um (Plot size: <u>10' r</u>	_)			be present.		
1.					Llydran by 4ic		
2.			Total Cover		Hydrophytic Vegetation	Yes X No	
% Poro Oround in	Horb Stratum 501	0% =			Present?		—
% Bare Ground in	Herb Stratum 5%						
Remarks:					Entere	ed by: tkm QC by:	cmw

SOIL

Sampling Point: P01

	Matri	X		Redox Fe	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	80	2.5YR 3/6	20	С	М	С	
5-20+	10YR 3/1	80	2.5YR 3/6	20	С	M, PL	С	
Type: C=Conce	ntration, D=Deplet	on, RM=Red	duced Matrix CS=Cove	ered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=N	latrix.
ydric Soil India	cators: (Applicabl	e to all LRR	s, unless otherwise	noted.)		Indicators f	or Problematic Hydr	ric Soils ³ :
Histosol (A1))		Sandy Redox (S5	5)		2 cm Mu	uck (A10)	
Histic Epiped	don (A2)		Stripped Matrix (S	S6)		Red Par	rent Material (TF2)	
Black Histic	(A3)		Loamy Mucky Mi	neral (F1) (exc	cept MLRA 1)	Very Sh	allow Dark Surface (T	F12)
Hydrogen Su	ılfide (A4)		Loamy Gleyed M	atrix (F2)		Other (E	Explain in Remarks)	
Depleted Bel	low Dark Surface (A11)	Depleted Matrix (F3)				
Thick Dark S	Surface (A12)		X Redox Dark Surfa	ace (F6)		³ Indicators c	of hydrophytic vegetati	ion and
Sandy Mucky	y Mineral (S1)		Depleted Dark St	urface (F7)		wetland hy	drology must be pres	sent,
Sandy Gleye	d Matrix (S4)		Redox Depressio	ns (F8)		unless dis	turbed or problematic	
Type: Depth (inches): Remarks:	S = sand; Si = silt;	C = clay; L =	loam or loamy; co = o	coarse; f = fine		ydric Soil Pre + = heavy (mo		No s clay)
Type: Depth (inches): Remarks: S HYDROLOG Vetland Hydrold	S = sand; Si = silt; Y ogy Indicators:			coarse; f = fine		+ = heavy (mo	ore clay); - = light (les	s clay)
Type: Depth (inches): Remarks: S HYDROLOG Vetland Hydrold Primary Indicator	S = sand; Si = silt; Y ogy Indicators: s (minimum of one		neck all that apply)		e; vf = very fine;	+ = heavy (me - <u>Secondary I</u>	ore clay); - = light (les ndicators (2 or more r	s clay)
Type: Depth (inches): Remarks: S HYDROLOG Vetland Hydrold Primary Indicator Surface Wat	S = sand; Si = silt; Y ogy Indicators: s (minimum of one er (A1)		neck all that apply)	eaves (B9) (ex	e; vf = very fine;	+ = heavy (mo - <u>Secondary I</u> Water-S	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N	s clay)
Type: Depth (inches): temarks: Semarks:	S = sand; Si = silt; Y bgy Indicators: s (minimum of one er (A1) Fable (A2)		neck all that apply) Water-Stained Le 1, 2, 4A, and 4	eaves (B9) (ex	e; vf = very fine;	+ = heavy (mo - <u>Secondary I</u> Water-S 4A, a	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B)	s clay)
Type: Depth (inches): Cemarks: S HYDROLOG Vetland Hydrold Primary Indicator Surface Wat X High Water T X Saturation (A	S = sand; Si = silt; γ bgy Indicators: s (minimum of one er (A1) Γable (A2) \(3)		neck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	eaves (B9) (ex I B)	e; vf = very fine;	+ = heavy (mo - <u>Secondary I</u> Water-S Drainag	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10)	s clay) required) ILRA 1, 2,
Type: Depth (inches): Remarks: S TYDROLOG Vetland Hydrold Vetland Hydrold Surface Wat Surface Wat Aligh Water T X Saturation (A Water Marks	S = sand; Si = silt; Y pgy Indicators: s (minimum of one er (A1) Fable (A2) \3) ; (B1)		water-Stained Le Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr	eaves (B9) (ex IB) ates (B13)	e; vf = very fine;	+ = heavy (mo <u>Secondary I</u> Water-S 4A , an Drainago Dry-Sea	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2)	<u>equired)</u> //LRA 1, 2,
Type: Depth (inches): temarks: TYDROLOG Vetland Hydrold Vetland Hydrold Yrimary Indicator Surface Wat X High Water T X Saturation (A Water Marks Sediment De	S = sand; Si = silt; y bgy Indicators: s (minimum of one er (A1) Γable (A2) \3) s (B1) eposits (B2)		Mater-Stained Le Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	eaves (B9) (ex IB) ates (B13) e Odor (C1)	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (les <u>ndicators (2 or more r</u> Stained Leaves (B9) (N nd 4B) e Patterns (B10) uson Water Table (C2) on Visible on Aerial In	<u>equired)</u> MLRA 1, 2,
Type: Depth (inches): Eemarks: S HYDROLOG Vetland Hydrold Primary Indicator Surface Wate X High Water T X Saturation (A Water Marks Sediment De Drift Deposit	S = sand; Si = silt; y bgy Indicators: <u>s (minimum of one</u> er (A1) Table (A2) A3) (B1) eposits (B2) s (B3)		Mater-Stained Le Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp	eaves (B9) (ex IB) ates (B13) • Odor (C1) • oheres along Li	; vf = very fine; cept MLRA	+ = heavy (mo - <u>Secondary I</u> Water-S 4A, a Drainage Dry-Sea Saturatio) Geomor	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) uson Water Table (C2) on Visible on Aerial In phic Position (D2)	<u>equired)</u> MLRA 1, 2,
Type: Depth (inches): Cemarks: S AYDROLOG Vetland Hydrold Primary Indicator Surface Wate X High Water T X Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or	S = sand; Si = silt; y bgy Indicators: s (minimum of one) er (A1) Fable (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4)		water-Stained Le Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red	eaves (B9) (ex IB) ates (B13) • Odor (C1) oheres along Li uced Iron (C4)	; vf = very fine; cept MLRA	+ = heavy (mo - <u>Secondary I</u> Water-S 4A, a Drainage Dry-Sea Saturatio) Geomor Shallow	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3)	<u>equired)</u> MLRA 1, 2,
Type: Depth (inches): Remarks: S HYDROLOG Vetland Hydrold Primary Indicator Surface Wate X High Water T X Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite	S = sand; Si = silt; f bgy Indicators: s (minimum of one) er (A1) Table (A2) (A3) b (B1) eposits (B2) s (B3) Crust (B4) s (B5)		Mater-Stained Lee 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex IB) ates (B13) codor (C1) oheres along Li uced Iron (C4) uction in Tilled	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary I</u> Water-S 4A, a Drainage Dry-Sea Saturatie) Geomor Shallow FAC-Ne	ore clay); - = light (les <u>ndicators (2 or more r</u> Stained Leaves (B9) (N nd 4B) e Patterns (B10) uson Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5)	s clay) required) MLRA 1, 2, nagery (C9)
Type: Depth (inches): Remarks: S TYDROLOG Vetland Hydrold Primary Indicator Surface Wate X High Water T X Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil	S = sand; Si = silt; gy Indicators: <u>s (minimum of one</u> er (A1) Table (A2) A3) (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	required; ch	Neck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , al Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised J	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Temarks: S TYDROLOG Vetland Hydrold rimary Indicator Surface Wate X High Water T X Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V	S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Fable (A2) (A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Image	agery (B7)	Mater-Stained Lee 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , al Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised J	ore clay); - = light (les <u>ndicators (2 or more r</u> Stained Leaves (B9) (N nd 4B) e Patterns (B10) uson Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5)	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Cemarks: S Comparison of the second Primary Indicator Surface Wate X High Water T X Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V	S = sand; Si = silt; gy Indicators: <u>s (minimum of one</u> er (A1) Table (A2) A3) (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	agery (B7)	Neck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , al Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised J	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Remarks: S TYDROLOG Vetland Hydrold Vetland Hydrold Primary Indicator Surface Wate Migh Water T X Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Veg	S = sand; Si = silt; y y y y y y y y y s (minimum of one s (minimum of one s (minimum of one er (A1) Table (A2) A3) i (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imagetated Concave S	agery (B7)	Neck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , al Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised J	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2,) nagery (C9)
Type: Depth (inches): Commercial commercial Commercial commercial commercial Commercial commercial commercial Commercial commercial	S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Fable (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imagetated Concave S ons:	agery (B7)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide X Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , al Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised J	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2,) nagery (C9)
Type: Depth (inches): Remarks: S TYDROLOG Vetland Hydrold Primary Indicator Surface Wate X Saturation (A Water Marks Sediment De Drift Deposits Sediment De Drift Deposits Surface Soil Inundation V Sparsely Veg Surface Water P	S = sand; Si = silt; y y y y y y y y y y y y y	agery (B7)	No X D	eaves (B9) (ex IB) ates (B13) c Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1) Remarks)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more r Stained Leaves (B9) (N nd 4B) e Patterns (B10) Ison Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2, nagery (C9) R A)
Depth (inches): Remarks: S HYDROLOG Vetland Hydrold Primary Indicator Surface Wate Surface Wate X High Water Tak X Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V	S = sand; Si = silt; y pgy Indicators: s (minimum of one er (A1) Table (A2) A3) 6 (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Ima getated Concave S ons: Present? Yes sent? Yes	agery (B7) urface (B8)	No X No X	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1 Remarks) epth (inches):	cept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo	ore clay); - = light (les <u>ndicators (2 or more r</u> Stained Leaves (B9) (N nd 4B) e Patterns (B10) uson Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) outral Test (D5) Ant Mounds (D6) (LRI eave Hummocks (D7)	s clay) required) MLRA 1, 2, nagery (C9) R A)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region City/County: Medford UR / Jackson Sampling Date: 4/6/2015 Medford Urban Reserve LWI Project/Site: Applicant/Owner: City of Medford State: OR Sampling Point: P02 Clare Kenny, Taya K. MacLean, C. Mirth Walker Section, Township, Range: Section 34, T37S, R1W Investigator(s): Local relief (concave, convex, none): convex Landform (hillslope, terrace, etc.): terrace Slope (%): <3 Subregion (LRR): A, Northwest Forests and Coast Lat: 42.302450 Long: -122.811700 Datum: NAD 1983 Soil Map Unit Name: Unit 33: Coker clay NWI classification: none No Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks) Х , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation ,Soil Are Vegetation ,Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Х Yes No Is the Sampled Area Hydric Soil Present? Х Yes No within a Wetland? Х Wetland Hydrology Present? Yes No Х Yes Precipitation prior to fieldwork: Dry spring evaluation Remarks: Flood irrigated pasture - ditches in place to the north. Obvious signature on multiple imagery. VEGETATION Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: <u>30' r</u>) % Cover Species? Status Number of Dominant Species 1. That Are OBL, FACW, or FAC: 1 (A) 2. 3. Total Number of Dominant 4. Species Across All Strata: 1 (B) 0% = Total Cover Sapling/Shrub Stratum (Plot size:__10' r__) Percent of Dominant Species 1. 100% That Are OBL, FACW, or FAC: (A/B) 2. Prevalence Index worksheet: 3. Total % Cover of: Multiply by: 4. OBL species 0 x 1 = 0 5. FACW species 0 x 2 = 0 FAC species 75 x 3 = 0% = Total Cover 225 Herb Stratum (Plot size: 5' r) FACU species 17 68 x 4 = 1. UPL species x 5 = Alopecurus pratensis 75% Yes FAC 8 40 (B) 2. Column Totals: 333 Poa bulbosa FACU 100 (A) 10% No 3. Prevalence Index = B/A = 3.33 Geranium dissectum 5% No NOL 4. Medicago polymorpha 3% FACU Hydrophytic Vegetation Indicators: No 5. 1 - Rapid Test for Hydrophytic Vegetation Veronica persica 3% No NOL 6. X 2 - Dominance Test is >50% 2% FACU Cardamine hirsuta No 7. 3 - Prevalence Index is ≤3.0¹ Lactuca serriola 2% No FACU 8. 4 - Morphological Adaptations¹ (Provide supporting 9. data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants¹ 11. Problematic Hydrophytic Vegetation¹ (Explain) 100% Indicators of hydric soil and wetland hydrology must = Total Cover (Plot size: <u>10' r</u>) Woody Vine Stratum be present. 1. Hydrophytic 2. = Total Cover Vegetation Х 0% Yes No Present? % Bare Ground in Herb Stratum 0%

Remarks:

Entered by: tkm QC by: cmw

Planted pasture grasses. Subdominant vegetation not hydrophytic. Vegetation in this area was distinctively different than in wetland area to the north - this is also visible on aerial imagery from 2005, 2010, 2013 and 2014.

SOIL

Sampling Point: P02

(inches) Color (mo 0-3 7.5YR 2.5 3-16+ 7.5YR 3/	ist) %							
		Color (r	noist)	%	Type ¹	Loc ²	Texture	Remark
3-16+ 7.5YR 3/	5/3 100						CL	rooty
	2 95	7.5Y	R 4/6	5	С	М	С	
								_
								_
								_
pe: C=Concentration, D=	Depletion, RM=	Reduced Matrix	CS=Cove	ered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=	Matrix.
Iric Soil Indicators: (App	licable to all L	RRs, unless of	herwise	noted.)		Indicators for	or Problematic Hyd	tric Soils ³ :
Histosol (A1)		Sandy	Redox (S5	5)		2 cm Mu	ick (A10)	
Histic Epipedon (A2)			d Matrix (S	,			ent Material (TF2)	
Black Histic (A3)				neral (F1) (exc	ept MLRA 1)		allow Dark Surface (TF12)
- Hydrogen Sulfide (A4)			Gleyed M		. ,		xplain in Remarks)	,
Depleted Below Dark Su	face (A11)		ed Matrix (`	,	
 Thick Dark Surface (A12 		X Redox				³ Indicators o	f hydrophytic vegeta	ation and
Sandy Mucky Mineral (S				urface (F7)		wetland hy	drology must be pre	esent,
Sandy Gleyed Matrix (S4			Depressio			-	urbed or problemati	
	`							
	= silt; C = clay;			coarse; f = fine		ydric Soil Pres + = heavy (mo	sent? Yes X	
Type: Depth (inches): emarks: S = sand; Si edox is likely present as a re	= silt; C = clay;			coarse; f = fine;		•		
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY	= silt; C = clay; esult of ongoing			coarse; f = fine		•		
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicato	= silt; C = clay; esult of ongoing	flood irrigation.		coarse; f = fine.		+ = heavy (mo	ore clay); - = light (le	ss clay)
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicator imary Indicators (minimum	= silt; C = clay; esult of ongoing	flood irrigation	apply)		; vf = very fine;	+ = heavy (mo	ore clay); - = light (le	ss clay)
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicator mary Indicators (minimum Surface Water (A1)	= silt; C = clay; esult of ongoing	flood irrigation. ; check all that	apply) Stained Le	eaves (B9) (exc	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (ss clay)
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicato mary Indicators (minimum Surface Water (A1) High Water Table (A2)	= silt; C = clay; esult of ongoing	flood irrigation. ; check all that Water-1 1, 2,	apply) Stained Le 4A, and 4	eaves (B9) (exc	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B)	ss clay)
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicator mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	= silt; C = clay; esult of ongoing	flood irrigation. ; <u>check all that</u> Water-3 1, 2, Salt Cru	apply) Stained Le 4A, and 4 ust (B11)	eaves (B9) (exc 4 B)	; vf = very fine;	+ = heavy (mo <u>Secondary Ir</u> <u>Water-S</u> 4A, ar Drainage	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10)	ss clay)
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicator mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	= silt; C = clay; esult of ongoing	flood irrigation. ; check all that Water-3 Salt Cri Salt Cri	apply) Stained Le 4A, and 4 ust (B11) Invertebr	eaves (B9) (exc 4B) rates (B13)	; vf = very fine;	+ = heavy (mo <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2	<u>required)</u> (MLRA 1, 2, 2)
Type: Depth (inches): marks: S = sand; Si dox is likely present as a re YDROLOGY etland Hydrology Indicator mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	= silt; C = clay; esult of ongoing	flood irrigation. <u>check all that</u> <u>Water-3</u> 1, 2, Salt Cru Aquation Hydrog	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide	eaves (B9) (exc 4B) rates (B13) e Odor (C1)	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I	<u>required)</u> (MLRA 1, 2, 2)
Type: Depth (inches): marks: S = sand; Si indox is likely present as a re YDROLOGY etland Hydrology Indicator imary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	= silt; C = clay; esult of ongoing	flood irrigation. ; check all that Water-3 1, 2, Salt Cru Aquatic Hydrog Oxidize	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li	; vf = very fine;	+ = heavy (mo - <u>Secondary Ir</u> - <u>Water-S</u> 4A, ar Drainage Dry-Seas Saturation Saturation - <u>Geomor</u>	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2)	<u>required)</u> (MLRA 1, 2, 2)
Type: Depth (inches): marks: S = sand; Si adox is likely present as a rest YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	= silt; C = clay; esult of ongoing	flood irrigation. ; check all that Water-1 1, 2, Salt Cri Aquatic Hydrog Oxidize	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4)	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3)	<u>required)</u> (MLRA 1, 2, 2)
Type: Depth (inches): Depth (inches): Demarks: S = sand; Si adox is likely present as a re YDROLOGY Etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	= silt; C = clay; esult of ongoing	flood irrigation. <u>; check all that</u> <u>Water-3</u> 1, 2, Salt Cru Aquatic Hydrog Oxidize Presen Recent	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu	eaves (B9) (exc 4B) eates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo	ore clay); - = light (le <u>ndicators (2 or more</u> tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5)	ss clay) <u>required)</u> (MLRA 1, 2, 2) Imagery (C9)
Type: Depth (inches): marks: S = sand; Si adox is likely present as a re- YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	= silt; C = clay; esult of ongoing ors: of one required	flood irrigation. ; check all that Water-3 1, 2, Salt Cru Aquatic Hydrog Oxidize Presen Recent Stunted	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu I or Stress	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Sea: Saturatio Saturatio Shallow FAC-Nei Raised A	ore clay); - = light (le <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9)
Type: Depth (inches): marks: S = sand; Si idox is likely present as a re YDROLOGY etland Hydrology Indicator mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer	= silt; C = clay; esult of ongoing ors: of one required	flood irrigation. ; check all that Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted) Other (apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu I or Stress	eaves (B9) (exc 4B) eates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Sea: Saturatio Saturatio Shallow FAC-Nei Raised A	ore clay); - = light (le <u>ndicators (2 or more</u> tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5)	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9)
Type: Depth (inches): marks: S = sand; Si adox is likely present as a rest YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aet Sparsely Vegetated Cont	= silt; C = clay; esult of ongoing ors: of one required	flood irrigation. ; check all that Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted) Other (apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu I or Stress	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Sea: Saturatio Saturatio Shallow FAC-Nei Raised A	ore clay); - = light (le <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9)
Type: Depth (inches): marks: S = sand; Si adox is likely present as a rest YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aet Sparsely Vegetated Con-	= silt; C = clay; esult of ongoing ors: of one required	flood irrigation. ; check all that Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted) Other (apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu I or Stress	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Sea: Saturatio Saturatio Shallow FAC-Nei Raised A	ore clay); - = light (le <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9)
Type: Depth (inches): marks: S = sand; Si edox is likely present as a re YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aet Sparsely Vegetated Com eld Observations: urface Water Present?	= silt; C = clay; esult of ongoing ors: of one required	flood irrigation. ; check all that Water-3 1, 2, Salt Cru Aquatic Hydrog Oxidize Presen Recent Stuntec) Other (.8)	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Red Iron Red d or Stress Explain in	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Sea: Saturatio Saturatio Shallow FAC-Nei Raised A	ore clay); - = light (le <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9)
Type: Depth (inches): marks: S = sand; Si adox is likely present as a rest YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aet Sparsely Vegetated Con- eld Observations: urface Water Present?	= silt; C = clay; esult of ongoing ors: of one required ial Imagery (B7 cave Surface (B	flood irrigation. ; check all that Water-3 1, 2, Salt Cru Aquatic Hydrog Oxidize Presen Recent Stuntec) Other (8)	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu f or Stress Explain in	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1) Remarks)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mo	ore clay); - = light (le <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1,
Type: Depth (inches): marks: S = sand; Si edox is likely present as a re- YDROLOGY etland Hydrology Indicator imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer	= silt; C = clay; esult of ongoing ors: of one required ial Imagery (B7 cave Surface (B Yes	flood irrigation. ; check all that Water-3 1, 2, Salt Cru Aquatic Hydrog Oxidize Presen Recent Stuntec) Other (.8)	apply) Stained Le 4A, and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redu I or Stress Explain in D	eaves (B9) (exc 4B) rates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1) Remarks) epth (inches):	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo	pre clay); - = light (le <u>ndicators (2 or more</u> tained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF eave Hummocks (D7	ss clay) <u>required)</u> (MLRA 1, 2, (MLRA 1,

١	WETLAND DETERMIN	NATION DATA	FORM – West	ern Mounta	ins, Valleys and	Coast Region	I
Project/Site: Me	edford Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Date:	4/6/2015
Applicant/Owner:	City of Medford				State: OR	Sampling Po	oint: P03
Investigator(s):	Clare Kenny, Taya K. MacL	ean, C. Mirth Wal	ker Section, T	ownship, Range	e: Section 34, T37S, I	R1W	
Landform (hillslope,	terrace, etc.): terrace			Local relief (concave, convex, none):	concave Sl	ope (%): <3
Subregion (LRR):	A, Northwest Forests and C	coast	Lat: 42.302040	 Long	g: -122.810300	Datum:	NAD 1983
Soil Map Unit Nam	e: Unit 33: Coker cl	ay		_	NWI	classification: non	e
Are climatic / hydro	ologic conditions on the site	typical for this time	e of year?	Yes	s X No	(If no, expla	in in Remarks)
Are Vegetation	,Soil	, or Hydrology	significantly of	disturbed? A	re "Normal Circumsta	nces" present?	Yes X No
Are Vegetation	,Soil	, or Hydrology			f needed, explain any		
SUMMARY OF	FINDINGS – Attach	site map sho	wing sampling	point locati	ions, transects, i	mportant feat	ures, etc.
Hydrophytic Veget	tation Present?	Yes X	No				
Hydric Soil Presen	nt?	Yes X	No	Is the Sampl	led Area		
Wetland Hydrolog	y Present?	Yes X	No	within a Wet	land? Yes	<u>X</u> No	
Precipitation prior t Remarks: Wetland W02_A ar							
VEGETATION							
T		Absolute	Dominant	Indicator	Dominance Test w		
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Domina	nt Species	
1.					That Are OBL, FAC	W, or FAC:	1 (A)
2.							
3.					Total Number of Do	ominant	
4.					Species Across All	Strata:	1 (B)
		0%	= Total Cover				
Sapling/Shrub Stra	tum (Plot size: <u>10' r</u>)			Percent of Dominar	nt Species	
1.					That Are OBL, FAC	W, or FAC:	<u>100%</u> (A/B)
2.					Prevalence Index	worksheet:	
3.					Total % Cover	r of: <u>Multiply by:</u>	
4.					OBL species	5 x 1 =	5
5.					FACW species	5 x 2 =	10
		0%	= Total Cover		FAC species	80 x 3 =	240
Herb Stratum	(Plot size: <u>5' r</u>)				FACU species	0 x 4 =	0
1. Alopecurus pra	atensis	80%	Yes	FAC	UPL species	0 x 5 =	0
2. Juncus balticu		5%	No	FACW	Column Totals:	90 (A)	255 (B)
3. Eleocharis aci	cularis	5%	No	OBL	Prevalence Inde	ax = B/A =	<u>2.83</u>
4.					Hydrophytic Vege	tation Indicators:	
5.					1 - Rapid Test 1	for Hydrophytic Ve	getation
6.					X 2 - Dominance		-
7.					X 3 - Prevalence		
8.						cal Adaptations ¹ (P	rovide supporting
9.					°	arks or on a separ	
10.						n-Vascular Plants ¹	
11.						drophytic Vegetati	
' '. ———			Total Course	·	¹ Indicators of hydric		
Woody Vine Stratu 1.	<u>ım</u> (Plot size: <u>10' r</u>		= Total Cover		be present.		hydrology must
2.					Hydrophytic		
		0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground in I	Herb Stratum 10%				Present?		
Remarks:					Entere	ed by: tkm QC	by: cmw

(inches) Calor (moist) % Type ¹ Loc ² Texture Remark 0-5 10YR 2/2 100	Depth	Mati	IX		Redox Fe	atures			
5-14 10YR 2/1 98 5YR 3/4 2 C M C very stiff Secondary Lindicators Wery stiff C Very stiff C Very stiff 'ype: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Send Grains. * Cocation: PL=Pore Lining, MeMatrix. 'ype: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Send Grains. * Cocation: PL=Pore Lining, MeMatrix. 'ype: C=Concentration, D=Depletion, RM=Reduced Matrix CS= Sandy Redux (SS)	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
Type: CacConcentration. D=Depletion. RM=Reduced Matrix CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining. M=Matrix. thictsol (1) Sandy Redox (SS) Indicators for Problematic Hydric Soils ³ : -Location: PL=Pore Lining. M=Matrix. Histos (1) Sandy Redox (SS) -Location: PL=Pore Lining. M=Matrix. -Location: Histos (A1) Sandy Redox (SS) -Location: PL=Pore Lining. M=Matrix. -Location: Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) -Uhter (Explain in Remarks) Depleted Below Dark. Surface (A11) Depleted Dark Surface (F6) *Indicators of hydrophylic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present. Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. WERNOLOGY Water Stained Lawes (B9) (MLRA 1, 2, 4, and 48) Matri Arks (B1) Matri Arks (B1) <th>0-5</th> <th>10YR 2/2</th> <th>100</th> <th></th> <th></th> <th></th> <th></th> <th>L</th> <th>roots</th>	0-5	10YR 2/2	100					L	roots
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histics (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Oleyed Matrix (S4) Redox Dark Surface (F7) unless disturbed or problematic. Setrictive Layer (If present): Type: Hydric Soil Present? Yes X No Depth (Inches):	5-14	10YR 2/1	98	5YR 3/4	2	C	M	С	very stiff
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Strippe :									
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) ³ Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S4) Redox Depressions (FB) unless disturbed or problematic. Stripped Indicators: S = sand; Si = sill; C = clay; L = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay) YDROLOGY									
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histics (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Matrix (F2) Other (Explain in Remarks) Beach Histic (A3) Loamy Mucky Mineral (F1) wetland hydrology must be present, Sandy Oleyed Matrix (S4) Redox Dark Surface (F7) wetland hydrology must be present, Sandy Oleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Stripped Indicators (If present): Type: Hydric Soil Present? Yes X No Septi (If present): Type: Secondary Indicators (2 or more required) Matrix Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Matrix Indicators (10) Depleted C1) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B1) Drainage Paterns (B10) Dry-Season Water Table (C2) Surface S(B2) Hydrogen Sutfide Odor (C1) Saltrust (B1) Drainage Paterns (B10)				- <u> </u>					
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histics (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Oleyed Matrix (S4) Redox Dark Surface (F7) unless disturbed or problematic. Setrictive Layer (If present): Type: Hydric Soil Present? Yes X No Depth (Inches):				·					
						Sand Grains.			
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Bolw Dark Surface (A11) Depleted Matrix (F3) * Thick Dark Surface (A12) X Redox Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Servictive Layer (if present): Type: Hydric Soil Present? Yes X No Poptot Inficators: inninum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) X High Water Table (A2) 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) X Saturation (A3) Satt Crust (B11) Drainage Patterns (R10) Drainage Patterns (R10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Saturation Visibl	ydric Soil Indica	ators: (Applicab	le to all LRR	s, unless otherwise r	noted.)		Indicators for	or Problematic Hyd	dric Soils ³ :
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) ************************************	Histosol (A1)			Sandy Redox (S5	5)		2 cm Mu	ıck (A10)	
	Histic Epipedo	on (A2)		Stripped Matrix (S	6)		Red Par	ent Material (TF2)	
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. estrictive Layer (if present): Type:	Black Histic (A	43)		Loamy Mucky Mir	neral (F1) (exc	ept MLRA 1)	Very Sha	allow Dark Surface	(TF12)
	Hydrogen Sulf	fide (A4)		Loamy Gleyed Ma	atrix (F2)		Other (E	xplain in Remarks)	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. testrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No testrictive Layer (if present): Type: Hydric Soil Present? Yes X No termarks: S = sand; Si = silt; C = clay; L = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay) MVDROLOCY Vetland Hydrology Indicators: Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) X High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) X Saturation (A3) Salt Crust (B11) Draige Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Solid Crust (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Positin (D2) Aligh Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) S	Depleted Belo	ow Dark Surface	(A11)	Depleted Matrix (F3)				
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. estrictive Layer (if present): Type: Hydric Soil Present? Yes X No Depth (inches): Hydric Soil Present? Yes X No No emarks: S = sand; Si = silt; C = clay; L = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay) IVDROLOGY Vertard Hydrology Indicators: Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA X High Water Table (A2) 1, 2, 4A, and 4B) X Aligat Matrix (B1) Aquatic Invertebrates (B13) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Softment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Surface Soil Cracks (B6) Sturted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparely Vegetated Concave Surface (B	Thick Dark Su	urface (A12)		X Redox Dark Surfa	ace (F6)		³ Indicators o	f hydrophytic vegeta	ation and
Exerticitive Layer (if present): Type:	Sandy Mucky	Mineral (S1)		Depleted Dark Su	urface (F7)		wetland hy	drology must be pre	esent,
Type: Hydric Soil Present? Yes X No Depth (inches):	Sandy Gleyed	Matrix (S4)		Redox Depression	ns (F8)		unless dist	turbed or problemati	ic.
Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) X High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) X Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Veget Mater Present? Yes No Water Table Present? Yes No Depth (inches): 2 Saturation Present? Yes X No Yes X Saturation Present? Yes X No Yes X	Depth (inches):	= sand; Si = silt;	 C = clay; L =	loam or loamy; co = c	coarse; f = fine				
X High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) X Saturation (A3)	Depth (inches): emarks: S		 C = clay; L =	loam or loamy; co = c	coarse; f = fine				
X Saturation (A3)	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog	gy Indicators:			coarse; f = fine		+ = heavy (mo	ore clay); - = light (le	ess clay)
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No Depth (inches): Wetland Hydrology Present? Water Table Present? Yes X No Depth (inches): 2 Saturation Present? Yes X No Depth (inches): Yes Yes X No Saturation Present? Yes X No Depth (inches): Surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators	gy Indicators:		neck all that apply)		; vf = very fine;	+ = heavy (mo	ore clay); - = light (le	ess clay)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): Yes Saturation Present? Yes X No Depth (inches): Yes Yes No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate	gy Indicators: (minimum of on r (A1)		neck all that apply)	eaves (B9) (ex e	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9)	ess clay)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): 2 Saturation Present? Yes X No Depth (inches): Yes Yes X No Includes capillary fringe) No Depth (inches): surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta	gy Indicators: <u>(minimum of on</u> r (A1) able (A2)		neck all that apply) Water-Stained Le 1, 2, 4A, and 4	eaves (B9) (ex e	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B)	ess clay)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No Depth (inches): Wetland Hydrology Present? Surface Water Present? Yes X No Depth (inches): Wetland Hydrology Present? Water Table Present? Yes X No Depth (inches): Yes Yes X No Saturation Present? Yes X No Depth (inches): Yes Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators 	gy Indicators: (minimum of on r (A1) able (A2) 3)		neck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	eaves (B9) (ex o B)	; vf = very fine;	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10)	<u>e required)</u> (MLRA 1, 2,
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Inchestion Stressed Plants (D1) (Inches): Vestar Depth (inches): Surface Water Present? Yes X No Depth (inches): Vestard Hydrology Present? Nater Table Present? Yes X No Depth (inches): Yes Yes Saturation Present? Yes X No Depth (inches): Yes Yes X No Includes capillary fringe) Yes X No Depth (inches): Yes Yes No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (gy Indicators: (minimum of on r (A1) able (A2) 3) (B1)		heck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	eaves (B9) (ex o I B) ates (B13)	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C	<u>e required)</u> (MLRA 1, 2, 2)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): 2 Saturation Present? Yes X No Depth (inches): Surface Yes X No Depth (inches): Surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) posits (B2)		Meck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	eaves (B9) (ex o B) ates (B13) Odor (C1)	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial	<u>e required)</u> (MLRA 1, 2, 2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) ield Observations: Frost-Heave Hummocks (D7) ield Observations: No X Depth (inches): Present? Vater Table Present? Yes X No Depth (inches): Present? Saturation Present? Yes X No Depth (inches): Yes Yes Saturation Present? Yes X No Depth (inches): Yes Yes X No includes capillary fringe) Ves X No Depth (inches): Surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) posits (B2) (B3)		heck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2)	<u>e required)</u> (MLRA 1, 2, 2)
Sparsely Vegetated Concave Surface (B8) Sield Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes Yes X No Depth (inches): 2 Saturation Present? Yes Yes X No Depth (inches): 2 Saturation Present? Yes Yes X No Depth (inches): surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4)		heck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4)	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3)	<u>e required)</u> (MLRA 1, 2, 2)
ield Observations: Surface Water Present? Yes No X Depth (inches):	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5)		Meck all that apply) Water-Stained Lee 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5)	2) Imagery (C9)
Surface Water Present? Yes No X Depth (inches): Nater Table Present? Yes X No Depth (inches): 2 Saturation Present? Yes X No Depth (inches): 2 Saturation Present? Yes X No Depth (inches): surface Includes capillary fringe) Yes X No No Yes	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6)	e required; ch	heck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled aed Plants (D1)	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI	2) Imagery (C9)
Vater Table Present? Yes X No Depth (inches): 2 Wetland Hydrology Present? Saturation Present? Yes X No Depth (inches): surface Yes Yes X No Saturation Present? Yes X No Depth (inches): surface Yes Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Im	e required; ch	heck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled aed Plants (D1)	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI	2) Imagery (C9)
Water Table Present? Yes X No Depth (inches): 2 Wetland Hydrology Present? Saturation Present? Yes X No Depth (inches): surface Yes Yes X No includes capillary fringe) Ves X No Surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege	gy Indicators: (minimum of on able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Im etated Concave 3	e required; ch	heck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled aed Plants (D1)	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI	2) Imagery (C9)
Saturation Present? Yes X No Depth (inches): surface Yes X No	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege ield Observation	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Im etated Concave s	e required; ch nagery (B7) Surface (B8)	Meck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled red Plants (D1) Remarks)	; vf = very fine; cept MLRA	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI	2) Imagery (C9)
	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege ield Observation	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Im etated Concave 3 ns: esent? Yes	<u>e required; ch</u> hagery (B7) Surface (B8)	No X De	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled aed Plants (D1) Remarks) epth (inches):	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo	pre clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI pave Hummocks (D7)	2) (MLRA 1, 2, 2) Imagery (C9) RR A) 7)
	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege ield Observation Surface Water Pres Saturation Preser	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imetated Concave and sible on Aerial Imetated Concave and ns: esent? Yes	e required; ch hagery (B7) Surface (B8)	No X Deck No X Deck No X Deck No X Deck	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled and Plants (D1) Remarks) epth (inches):	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI eave Hummocks (D7) I Hydrology Preser	e required) (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)
	Depth (inches): emarks: S IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege ield Observation Surface Water Pres Saturation Preser includes capillary	gy Indicators: (minimum of on r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Cracks (B6) sible on Aerial Im etated Concave a ns: esent? Yes ent? Yes of ringe)	e required; ch hagery (B7) Surface (B8) X	No X Deck No X Deck No X Deck No Deck Deck	eaves (B9) (ex B) ates (B13) Odor (C1) heres along Li uced Iron (C4) uction in Tilled red Plants (D1) Remarks) epth (inches): epth (inches):	; vf = very fine; ; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)) (LRR A) 	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI eave Hummocks (D7) I Hydrology Preser	e required) (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)

WETLAND DETERM	INATION DATA	FORM – Wes	tern Mounta	ains, Valleys and	Coast Regio	n
Project/Site: Medford Urban Reserve LW		City/County:	Medford UR	/ Jackson	Sampling Date:	: 4/7/2015
Applicant/Owner: City of Medford				State: OR	Sampling I	Point: P04
Investigator(s): Clare Kenny, Taya K. Mad	cLean, C. Mirth Wa	lker Section, 7	Fownship, Rang	e: Section 31, T36S, I	R1W	
Landform (hillslope, terrace, etc.): terrace			Local relief	(concave, convex, none):	none S	Slope (%): 0
Subregion (LRR): A, Northwest Forests and	Coast	Lat: 42.399160	Lon	g: -122.868200	Datum	: NAD 1983
Soil Map Unit Name: Unit 35A: Cove	clay (hydric)		_	NWI	classification: no	one
Are climatic / hydrologic conditions on the site	e typical for this tim	e of year?	Ye	es X No	(If no, exp	lain in Remarks)
Are Vegetation,Soil	, or Hydrology	significantly	disturbed? A	Are "Normal Circumsta	nces" present?	Yes X No
Are Vegetation,Soil	, or Hydrology	naturally pro		If needed, explain any		
SUMMARY OF FINDINGS – Attacl	n site map sho	wing sampling	g point locat	ions, transects, i	important fea	itures, etc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes	No X	Is the Samp			
Wetland Hydrology Present?	Yes	No X	within a We	tland? Yes	No	X
Remarks: Upland	g evaluation					
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test w		
Tree Stratum (Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Domina		
1.				That Are OBL, FAC	CW, or FAC:	2(A)
2.						
3.				Total Number of Do	ominant	
4.				Species Across All	Strata:	2 (B)
		= Total Cover				
Sapling/Shrub Stratum (Plot size: 10	<u>' r)</u>			Percent of Dominal	nt Species	
1.				That Are OBL, FAC	CW, or FAC:	<u>100%</u> (A/B)
2.				Prevalence Index	worksheet:	
3.				Total % Cover	r of: <u>Multiply by</u>	/:
4				OBL species	0 x 1 =	0
5				FACW species	0 x 2 =	0
	0%	= Total Cover		FAC species	82 x 3 =	246
<u>Herb Stratum</u> (Plot size: <u>5' r</u>)				FACU species	1 x 4 =	4
1. Poa species	40%	Yes	FAC ?	UPL species	20 x 5 =	100
2. Leymus cinereus	30%	Yes	FAC	Column Totals:	103 (A)	350 (B)
3. Bromus diandrus	10%	No	NOL	Prevalence Inde	ex = B/A =	<u>3.40</u>
4. Festuca species	10%	No	FAC*	Hydrophytic Vege	tation Indicators	5:
5. Geranium dissectum	10%	No	NOL	1 - Rapid Test	for Hydrophytic V	egetation
6. Rumex crispus	1%	No	FAC	X 2 - Dominance	Test is >50%	
7. Poa bulbosa	1%	No	FACU	3 - Prevalence	Index is $\leq 3.0^1$	
8. Vicia americana	1%	No	FAC	4 - Morphologic	cal Adaptations ¹ (Provide supporting
9.				data in Rem	arks or on a sepa	arate sheet)
10.				5 - Wetland No	n-Vascular Plant	s ¹
11.				Problematic Hv	drophytic Vegeta	ation ¹ (Explain)
Woody Vine Stratum (Plot size: 10		= Total Cover		¹ Indicators of hydric be present.		
1. 2.				Hudrophytic		
۲	0%	= Total Cover		Hydrophytic Vegetation	Yes X No	0
% Para Cround in Llash Stratum				Present?		
% Bare Ground in Herb Stratum 0%	J					O have orrest
Remarks: * or ? = Assumed FAC.				Entere	ed by: tkm Q	C by: cmw

US Army Corps of Engineers SWCA Environmental Consultants

						atures			
(inches) Col	or (moist)	%	Color (mo	ist)	%	Type ¹	Loc ²	Texture	Remark
0-14 10	OYR 3/2	100						CL	
pe: C=Concentratio	n D-Depleti	on RM-Re	duced Matrix C	S-Covered o	or Coated 9	Sand Grains	² Location:	PL=Pore Lining, M=N	
dric Soil Indicators						Sanu Oranis.		or Problematic Hyd	2
	, approach				,			•	
_Histosol (A1)	2)		Sandy Re	. ,			2 cm Mu		
Histic Epipedon (A	(2)			Matrix (S6)	(54) (ent Material (TF2)	
Black Histic (A3)				-		ept MLRA 1)		allow Dark Surface (IF12)
Hydrogen Sulfide (eyed Matrix ((F2)		Other (E:	xplain in Remarks)	
Depleted Below Da		A11)		Matrix (F3)			3		
Thick Dark Surface				rk Surface (F	,			f hydrophytic vegetat	
Sandy Mucky Mine	, ,		Depleted	Dark Surface	e (F7)		-	drology must be pres	
Sandy Gleyed Mat	trix (S4)		Redox De	pressions (F	8)		unless dist	urbed or problemation) .
Type: Depth (inches): emarks: S = sa		C = clay; L =	- loam or loamy	 /; co = coarse	e; f = fine;		ydric Soil Pres + = heavy (mo	sent? Yes ore clay); - = light (les	No X
Type: Depth (inches): emarks: S = sa	ind; Si = silt; (C = clay; L =	- loam or loamy	 /; co = coarse	e; f = fine;		-		
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In	ind; Si = silt; (e; f = fine;		+ = heavy (mo		ss clay)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In	nd; Si = silt; (ndicators:		neck all that ap			vf = very fine	+ = heavy (mo	ore clay); - = light (les	ss clay)
Type: Depth (inches): marks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir	nd; Si = silt; (ndicators: nimum of one		neck all that ap	ply)		vf = very fine	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more rained Leaves (B9) (ss clay)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1	nd; Si = silt; (ndicators: nimum of one		neck all that ap	ply) ained Leaves A, and 4B)		vf = very fine	+ = heavy (mo <u>Secondary Ir</u> Water-St 4A, an	ore clay); - = light (les ndicators (2 or more rained Leaves (B9) (ss clay)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table	nd; Si = silt; (ndicators: nimum of one		neck all that ap Water-Sta 1, 2, 44 Salt Crust	ply) ained Leaves A, and 4B)	(B9) (exc	vf = very fine	+ = heavy (mo <u>Secondary Ir</u> <u>Water-St</u> 4A, an Drainage	ne clay); - = light (les adicators (2 or more ained Leaves (B9) (ad 4B)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3)	nd; Si = silt; (ndicators: nimum of one) (A2)		neck all that ap Water-Sta 1, 2, 44 Salt Crust	<u>ply)</u> ained Leaves A, and 4B) : (B11)	(B9) (exc (B13)	vf = very fine	+ = heavy (mo <u>Secondary Ir</u> <u>Water-St</u> 4A, an Drainage Dry-Seas	ndicators (2 or more adicators (8 or more ained Leaves (89) (ad 48) Patterns (810)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	nd; Si = silt; (ndicators: nimum of one (A2) s (B2)		neck all that ap Water-Sta 1, 2, 44 Salt Crust Aquatic In Hydrogen	ply) ained Leaves A, and 4B) : (B11) avertebrates (Sulfide Odo	(B9) (exc (B13) r (C1)	vf = very fine	+ = heavy (mo <u>Secondary Ir</u> <u>Water-St</u> 4A, an Drainage Dry-Seas Saturatio	ndicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposite	nd; Si = silt; (ndicators: himum of one (A2) s (B2)		heck all that ap Water-Sta 1, 2, 44 Salt Crust Aquatic In Hydrogen Oxidized I	ply) ained Leaves A, and 4B) : (B11) avertebrates (Sulfide Odo	(B9) (exc (B13) r (C1) s along Liv	vf = very fine	+ = heavy (mo <u>Secondary Ir</u> <u>Water-St</u> <u>4A, an</u> <u>Drainage</u> <u>Dry-Seas</u> <u>Saturatio</u> <u>3)</u> <u>Geomorp</u>	ndicators (2 or more adicators (2 or more ained Leaves (B9) (ad 4B) P Patterns (B10) son Water Table (C2 on Visible on Aerial In	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust	nd; Si = silt; (ndicators: nimum of one (A2) s (B2) (B4)		heck all that ap Water-Sta 1, 2, 44 Salt Crust Aquatic In Hydrogen Oxidized I Presence	ply) ained Leaves A, and 4B) : (B11) ivertebrates (Sulfide Odo Rhizospheres of Reduced	(B9) (exc (B13) r (C1) s along Liv Iron (C4)	vf = very fine	+ = heavy (mo + = heavy (mo <u>Secondary Ir</u> Water-St 4A, an Drainage Dry-Seas Saturatio Shallow (re clay); - = light (les ndicators (2 or more rained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	nd; Si = silt; (ndicators: nimum of one (A2) s (B2) (B4)		heck all that ap Water-Sta 1, 2, 44 Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Irc	ply) ained Leaves A, and 4B) : (B11) ivertebrates (Sulfide Odo Rhizospheres	(B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S	vf = very fine ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo + = heavy (mo <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Saturatio Shallow / FAC-Neu	ore clay); - = light (les adicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack	nd; Si = silt; (ndicators: nimum of one (A2) s (B2) (B4) cs (B6)	required; ch	Water-Sta Water-Sta 1, 2, 4 Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent In Stunted o	ply) ained Leaves A, and 4B) : (B11) avertebrates (Sulfide Odo Rhizospheres of Reduced on Reduction r Stressed Pl	(B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1)	vf = very fine ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Saturatio Shallow / FAC-Neu Raised A	ndicators (2 or more adicators (2 or more ained Leaves (B9) (ad 4B) P Patterns (B10) son Water Table (C2 on Visible on Aerial In ohic Position (D2) Aquitard (D3) utral Test (D5)	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible	nd; Si = silt; (ndicators: nimum of one (A2) (A2) (B4) (B4) (s (B6) on Aerial Ima	required; ch	Water-Sta Water-Sta 1, 2, 4 Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent In Stunted o	ply) ained Leaves A, and 4B) : (B11) ivertebrates (Sulfide Odo Rhizospheres of Reduced on Reduction	(B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1)	vf = very fine ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Saturatio Shallow / FAC-Neu Raised A	ore clay); - = light (les adicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LR	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate	nd; Si = silt; (ndicators: nimum of one (A2) (A2) (B4) (B4) (s (B6) on Aerial Ima	required; ch	Water-Sta Water-Sta 1, 2, 4 Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent In Stunted o	ply) ained Leaves A, and 4B) : (B11) avertebrates (Sulfide Odo Rhizospheres of Reduced on Reduction r Stressed Pl	(B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1)	vf = very fine ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Saturatio Shallow / FAC-Neu Raised A	ore clay); - = light (les adicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LR	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): marks: S = sa YDROLOGY etland Hydrology In imary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate eld Observations:	ind; Si = silt; (indicators: himum of one (A2) (A2) (B4) (B4) (s (B6) on Aerial Ima ed Concave S	required; ch ngery (B7) urface (B8)	Mater-Sta Water-Sta 1, 2, 4 Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent In Stunted o Other (Ex	ply) ained Leaves A, and 4B) : (B11) ivertebrates (Sulfide Odor Rhizospheres of Reduced on Reduced on Reduction r Stressed Pl plain in Rema	(B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1) arks)	vf = very fine ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Saturatio Shallow / FAC-Neu Raised A	ore clay); - = light (les adicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LR	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In imary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate eld Observations: urface Water Presen	ind; Si = silt; (indicators: himum of one (A2) (A2) (B4) (B4) (B4) (B4) (B4) (B4) (B4) (Concave S (B6) (Concave S (Concave S)	required; ch ngery (B7) urface (B8)	No X	ply) ained Leaves A, and 4B) (B11) avertebrates (Sulfide Odo Rhizospheres of Reduced on Reduction r Stressed Pl plain in Remain Depth ((B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1) arks)	vf = very fine ept MLRA ring Roots (C3 Soils (C6) (LRR A)	+ = heavy (mo + = heavy (mo <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Stallow J FAC-Neu Raised A Frost-He	adicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LR ave Hummocks (D7)	<u>required)</u> MLRA 1, 2, 2) magery (C9) R A)
Type: Depth (inches): emarks: S = sa YDROLOGY etland Hydrology In timary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate eld Observations: furface Water Present	ind; Si = silt; (indicators: himum of one (A2) (A2) (B4) (B4) (s (B6) on Aerial Ima (concave S (concave S (concave S) (concave S)	required; ch ngery (B7) urface (B8)	No X	ply) ained Leaves A, and 4B) (B11) overtebrates (Sulfide Odol Rhizospheres of Reduced on Reduction r Stressed Pl plain in Remain Depth (Depth ((B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1) arks) (inches):	vf = very fine ept MLRA ving Roots (C: Soils (C6) (LRR A) >14	+ = heavy (mo + = heavy (mo <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Stallow J FAC-Neu Raised A Frost-He	adicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In bhic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LR ave Hummocks (D7)	<u>required)</u> MLRA 1, 2, 2) magery (C9) (R A)
Depth (inches): emarks: S = sa YDROLOGY retland Hydrology In rimary Indicators (mir Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible	ind; Si = silt; (indicators: inimum of one (A2) (A2) (B4) (B4) (s (B6) on Aerial Ima (d Concave S (d Concave S (t? Yes Yes (Yes	required; ch ngery (B7) urface (B8)	No X	ply) ained Leaves A, and 4B) (B11) overtebrates (Sulfide Odol Rhizospheres of Reduced on Reduction r Stressed Pl plain in Remain Depth (Depth ((B9) (exc (B13) r (C1) s along Liv Iron (C4) in Tilled S lants (D1) arks)	vf = very fine ept MLRA ring Roots (C3 Soils (C6) (LRR A)	+ = heavy (mo + = heavy (mo <u>Secondary Ir</u> Water-St 4A , an Drainage Dry-Seas Saturatio Stallow J FAC-Neu Raised A Frost-He	adicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LR ave Hummocks (D7)	<u>required)</u> MLRA 1, 2, 2) magery (C9) R A)

	WETLAND DETERMI	NATION DATA	FORM – West	tern Mounta	ins, Valleys and	Coast Region	
Project/Site: M	ledford Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Date: 4/	7/2015
Applicant/Owner:	City of Medford				State: OR	Sampling Poir	nt: P05
Investigator(s):	Clare Kenny, Taya K. Macl	ean, C. Mirth Wa	Iker Section, T	ownship, Range	e: Section 31, T36W,	R1W	
Landform (hillslope,	, terrace, etc.): terrace			Local relief ((concave, convex, none):	concave Slop	e (%): <2
Subregion (LRR):	A, Northwest Forests and C	Coast	Lat: 42.394580	 Long	g: -122.861800	Datum: N	AD 1983
Soil Map Unit Nam	ne: Unit 141A: Phoe	nix clay (hydric)		_	NWI	classification: PEM	>
Are climatic / hydr	ologic conditions on the site	typical for this tim	e of year?	Ye	s X No	(If no, explain	in Remarks)
Are Vegetation	,Soil	, or Hydrology	significantly	disturbed? A	re "Normal Circumsta	inces" present? Ye	es X No
Are Vegetation	,Soil	, or Hydrology	naturally pro	blematic? (I	f needed, explain any	answers in Remark	s.)
SUMMARY OF	F FINDINGS – Attach	site map sho	wing sampling	point locat	ions, transects, i	important featu	res, etc.
Hydrophytic Vege	etation Present?	Yes X	No				
Hydric Soil Prese	nt?	Yes X	No	Is the Samp	led Area		
Wetland Hydrolog	gy Present?	Yes X	No	within a Wet	tland? Yes	X No	
	4. Hydrologically connected t		aic.				
VEGETATION							
T 01 1		Absolute	Dominant	Indicator	Dominance Test w		
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Domina	nt Species	
1.					That Are OBL, FAC	CW, or FAC:	1 (A)
2.							
3.					Total Number of Do	ominant	
4.					Species Across All	Strata:	1 (B)
		0%	= Total Cover				
Sapling/Shrub Stra	atum (Plot size: <u>10' i</u>	<u>()</u>			Percent of Dominal	nt Species	
1.					That Are OBL, FAC	CW, or FAC: <u>10</u>	<u>0%</u> (A/B)
2.					Prevalence Index	worksheet:	
3.					Total % Cover	r of: <u>Multiply by:</u>	
4.					OBL species	0 x 1 =	0
5.					FACW species	0 x 2 =	0
		0%	= Total Cover		FAC species	90 x 3 =	270
Herb Stratum	(Plot size: <u>5' r</u>)				FACU species	0 x 4 =	0
1. Alopecurus pr	ratensis	85%	Yes	FAC	UPL species	0 x 5 =	0
2. Vicia species		5%	No	FAC*	Column Totals:	90 (A)	270 (B)
3.		_			Prevalence Inde		3.00
4.					Hydrophytic Vege	tation Indicators:	
5.						for Hydrophytic Vege	etation
6.					X 2 - Dominance		
7.					X 3 - Prevalence		
8.						cal Adaptations ¹ (Pro	
9.						arks or on a separat	
10.						n-Vascular Plants ¹	e sheet)
11.						drophytic Vegetation	¹ (Evolain)
· · · ·			Tatal Causar		· · · ·		
<u>Woody Vine Stratu</u> 1.	um (Plot size: <u>10' i</u>)	= Total Cover		be present.	c soil and wetland hy	arology must
2.		_			Hydrophytic		
		0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground in	Herb Stratum 10%				Present?		
Remarks: * = Assu	umed FAC.				Entere	ed by: tkm QC b	y: cmw

US Army Corps of Engineers SWCA Environmental Consultants

Depth	Mati			Redox Fe	caluies			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-3	10YR 2/2	100					С	thick roots
3-20	10YR 4/1	98	7.5YR 4/6	2	C	M, PL	С	
								_
								_
ype: C=Concent	ration, D=Deple	tion, RM=Red	luced Matrix CS=Co	overed or Coated	d Sand Grains.	² Location:	PL=Pore Lining, M=I	Matrix.
dric Soil Indicat	tors: (Applicab	le to all LRR	s, unless otherwis	e noted.)		Indicators for	or Problematic Hyd	Iric Soils ³ :
Histosol (A1)			Sandy Redox (S5)		2 cm Mu	ck (A10)	
Histic Epipedor	n (A2)		Stripped Matrix	(S6)		Red Par	ent Material (TF2)	
Black Histic (A	.3)		Loamy Mucky	Mineral (F1) (ex	cept MLRA 1)	Very Sha	allow Dark Surface (TF12)
Hydrogen Sulfi	ide (A4)		Loamy Gleyed	Matrix (F2)		Other (E	xplain in Remarks)	
Depleted Below	w Dark Surface	(A11)	X Depleted Matri	x (F3)				
Thick Dark Sur	rface (A12)		Redox Dark Su	urface (F6)		³ Indicators o	f hydrophytic vegeta	tion and
Sandy Mucky M	Mineral (S1)	•	Depleted Dark	Surface (F7)		wetland hy	drology must be pre	esent,
Sandy Gleyed	Matrix (S4)	•	Redox Depress	sions (F8)		unless dist	urbed or problemation	c.
ommon 1"-4" grav			loam or loamy; co	= coarse; f = fine		ydric Soil Pres + = heavy (mo	sent? Yes X	
emarks: S = ommon 1"-4" grav IYDROLOGY /etland Hydrolog	vels and cobbles	S.		= coarse; f = fine		+ = heavy (mo	ore clay); - = light (le	ss clay)
emarks: S = ommon 1"-4" grav IYDROLOGY /etland Hydrolog rimary Indicators (vels and cobbles y Indicators: (minimum of on	S.	eck all that apply)		e; vf = very fine;	+ = heavy (mo	ore clay); - = light (le	ss clay)
emarks: S = ommon 1"-4" grav YDROLOGY Yetland Hydrolog rimary Indicators (Surface Water	vels and cobbles y Indicators: (minimum of on (A1)	S.	eck all that apply)	Leaves (B9) (ex	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (ss clay)
emarks: S = common 1"-4" grav YDROLOGY etland Hydrolog rimary Indicators (Surface Water High Water Tal	yels and cobbles y Indicators: (minimum of on (A1) ble (A2)	S.	eck all that apply) Water-Stained 1, 2, 4A, and	Leaves (B9) (ex d 4B)	e; vf = very fine;	+ = heavy (mo	ndicators (2 or more tained Leaves (B9) (nd 4B)	ss clay)
emarks: S = common 1"-4" grav YDROLOGY etland Hydrolog imary Indicators (Surface Water High Water Tal Saturation (A3)	yels and cobbles y Indicators: (minimum of on (A1) ble (A2)	S.	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11	Leaves (B9) (ex d 4B)	e; vf = very fine;	+ = heavy (mo - <u>Secondary Ir</u> Water-S Vater-S Drainage	ndicators (2 or more tained Leaves (B9) (ad 4B) Patterns (B10)	ss clay) <u>required)</u> (MLRA 1, 2,
emarks: S = common 1"-4" grav YDROLOGY (etland Hydrolog rimary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (E	vels and cobbles y Indicators: (minimum of on (A1) ble (A2)) B1)	S.	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte	Leaves (B9) (ex d 4B) I) bbrates (B13)	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2	<u>required)</u> (MLRA 1, 2, 2)
emarks: S = common 1"-4" grav YDROLOGY etland Hydrolog rimary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo	vels and cobbles y Indicators: (minimum of on (A1) ble (A2)) B1) osits (B2)	s. <u>e required; ch</u>	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi	Leaves (B9) (ex d 4B) I) Ibrates (B13) de Odor (C1)	e; vf = very fine;	+ = heavy (mo	ndicators (2 or more tained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I	<u>required)</u> (MLRA 1, 2, 2)
emarks: S = common 1"-4" grav YDROLOGY etland Hydrolog imary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (vels and cobbles y Indicators: (minimum of on (A1) ble (A2)) B1) osits (B2) (B3)	s. <u>e required; ch</u>	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi X Oxidized Rhizo	Leaves (B9) (ex d 4B) ⁾ brates (B13) de Odor (C1) ospheres along L	e; vf = very fine; ccept MLRA	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturation X Geomore	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2)	<u>required)</u> (MLRA 1, 2, 2)
emarks: S = ommon 1"-4" grav YDROLOGY Yetland Hydrolog rimary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr	vels and cobbles y Indicators: (minimum of on (A1) ble (A2)) B1) osits (B2) (B3) rust (B4)	s. <u>e required; ch</u>	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi X Oxidized Rhizc Presence of Re	Leaves (B9) (ex d 4B) I) bbrates (B13) de Odor (C1) ospheres along L educed Iron (C4)	; vf = very fine; cept MLRA	+ = heavy (mo <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio Shallow	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3)	<u>required)</u> (MLRA 1, 2, 2)
emarks: S = ommon 1"-4" grav IYDROLOGY /etland Hydrolog rimary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (vels and cobbles y Indicators: (minimum of on (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5)	s. <u>e required; ch</u>	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi X Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (ex d 4B) I) Ibrates (B13) de Odor (C1) Ispheres along L Ieduced Iron (C4) Ieduction in Tilled	e; vf = very fine; ccept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo	ndicators (2 or more tained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I oblic Position (D2) Aquitard (D3) utral Test (D5)	<u>required)</u> (MLRA 1, 2, 2) magery (C9)
emarks: S = ommon 1"-4" grav YDROLOGY (etland Hydrolog rimary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (F Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr	vels and cobbles y Indicators: (minimum of on (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) racks (B6)	s. <u>e required; ch</u>	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi X Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (ex d 4B) brates (B13) de Odor (C1) espheres along L educed Iron (C4) eduction in Tilled essed Plants (D1	e; vf = very fine; ccept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio X Geomory Shallow FAC-Nei Raised A	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF	<u>required)</u> (MLRA 1, 2, 2) magery (C9)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region Medford Urban Reserve LWI City/County: Medford UR / Jackson Project/Site: Sampling Date: 4/7/2015 Applicant/Owner: City of Medford State: OR Sampling Point: P06 Investigator(s): Clare Kenny, Taya K. MacLean Section, Township, Range: Section 32, T36S, R1W Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): terrace none Slope (%): <2 Subregion (LRR): A, Northwest Forests and Coast Lat: 42.396690 Long: -122.851500 Datum: NAD 1983 Soil Map Unit Name: Unit 33: Coker clay NWI classification: none No Are climatic / hydrologic conditions on the site typical for this time of year? Yes Х (If no, explain in Remarks) Are Vegetation ,Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation,Soi	il, or Hydrology	/	naturally pro	oblematic? (If needed, e	explain any a	answers in Rem	arks.)	
SUMMARY OF FINDINGS	- Attach site map sh	owing	sampling	g point locations, tra	nsects, in	nportant fea	tures, e	tc.
Hydrophytic Vegetation Present?	Yes X	No						
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	X	
Precipitation prior to fieldwork:	Dry spring evaluation							

Precipitation prior to fieldwork: Remarks:

Upland. Flood irrigated hay pasture with extensive ditching. See also P23, collected on 4/22/15 during site re-visit.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
	0%	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>10' r</u>)		-		Percent of Dominant Species
1				That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2				Prevalence Index worksheet: Total % Cover of: Multiply by:
4.				OBL species 0 x 1 = 0
5.				FACW species $5 \times 2 = 10$
	0%	= Total Cover		FAC species 96 x 3 = 288
Herb Stratum (Plot size: <u>5' r</u>)		-		FACU species 1 x 4 = 4
1. Alopecurus pratensis	95%	Yes	FAC	UPL species 0 x 5 = 0
2. Carex praegracilis	5%	No	FACW	Column Totals: <u>102</u> (A) <u>302</u> (B)
3. Ranunculus glaberrimus	1%	No	FACU	Prevalence Index = $B/A = 2.96$
4. Poa species	1%	No	FAC ?	Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is $\leq 3.0^1$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				5 - Wetland Non-Vascular Plants ¹
11.				Problematic Hydrophytic Vegetation ¹ (Explain)
	102%	= Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: <u>10' r</u>)		-		be present.
1				the description
2	0%	= Total Cover		Hydrophytic Vegetation Yes X No
% Bare Ground in Herb Stratum 0%	0%			Present?
Remarks: ? = Assumed FAC.	•			Entered by: tkm QC by: cmw

					ox Features				
(inches) Color (m	oist) %	Co	lor (moist)	%	Тур	e ¹	Loc ²	Texture	Remark
0-2 7.5YR 3	3/2 100)						С	root layer
2-17 7.5YR	4/1 100)						С	very stiff
ype: C=Concentration, D=	=Depletion, RM:	=Reduced M	latrix CS=0	Covered or C	oated Sand (Grains.	² Location:	PL=Pore Lining, M=	Matrix.
dric Soil Indicators: (Ap								or Problematic Hyd	
Histosol (A1)	•		ndy Redo	-				uck (A10)	
Histic Epipedon (A2)			ipped Mat					rent Material (TF2)	
Black Histic (A3)				y Mineral (F1)	(except MI	RA 1)		allow Dark Surface ((TF12)
Hydrogen Sulfide (A4)			-	ed Matrix (F2)		,		Explain in Remarks)	(
Depleted Below Dark S	urface (A11)		pleted Ma						
Thick Dark Surface (A1				Surface (F6)			³ Indicators o	of hydrophytic vegeta	ation and
Sandy Mucky Mineral (rk Surface (F7	7)			/drology must be pre	
Sandy Gleyed Matrix (S				essions (F8)				turbed or problemati	
	4)			5310113 (1 0)			uniess uis		ю.
xtremely stiff soil - dry thro		r; L = loam o	r loamy; c	o = coarse; f	= fine; vf = ve		ydric Soil Pre + = heavy (mo	sent? Yes ore clay); - = light (le	No X
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro	ughout.	r; L = loam o	r loamy; c	o = coarse; f	= fine; vf = ve				
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro YDROLOGY Vetland Hydrology Indicat	ughout.				= fine; vf = ve		+ = heavy (mo		ess clay)
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro YDROLOGY Vetland Hydrology Indicat	ughout.	d; check all t	that apply			ery fine;	+ = heavy (me - <u>Secondary I</u>	ore clay); - = light (le	ess clay)
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro YDROLOGY /etland Hydrology Indicat rimary Indicators (minimum	ughout.	d; check all t	that apply) ed Leaves (B9		ery fine;	+ = heavy (mo - <u>Secondary I</u> Water-S	ore clay); - = light (le	ess clay)
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro YDROLOGY Vetland Hydrology Indicat rimary Indicators (minimun Surface Water (A1)	ughout.	d; check all t Wa	that apply) ed Leaves (B9 nd 4B)		ery fine;	+ = heavy (mo - <u>Secondary I</u> Water-S 4 A, a	ore clay); - = light (le ndicators (2 or more tained Leaves (B9)	ess clay)
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2)	ughout.	<u>d; check all f</u> Wa Sa	that apply) ater-Staine 1, 2, 4A, a It Crust (B) ed Leaves (B9 nd 4B)) (except MI	ery fine;	+ = heavy (mo - <u>Secondary I</u> Water-S Drainag	ndicators (2 or more tained Leaves (B9) nd 4B)	erequired) (MLRA 1, 2,
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	ughout.	<u>d; check all f</u> Wa Sa Sa Aq	that apply ater-Staine 1, 2, 4A, a It Crust (B uatic Inver) ed Leaves (BS nd 4B) 11)	(except MI 3)	ery fine;	+ = heavy (mo <u>Secondary I</u> Water-S 4A , an Drainago Dry-Sea	ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10)	2) 2) 2) 2) 2) 2) 2)
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Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ughout.	<u>d; check all t</u> Sa Aq Nq Ox Re	that apply ater-Staine 1, 2, 4A, a It Crust (B uatic Inver drogen Su idized Rhi esence of cent Iron F) ed Leaves (BS nd 4B) 11) 11) Ifide Odor (C zospheres ald Reduced Iron	 a) (except MI b) (except MI b) (except MI b) (except MI c) (except MI e) (except MI	RA ots (C3	+ = heavy (mo - <u>Secondary I</u> Water-S 4A, a Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3)	2955 clay) 29 required) (MLRA 1, 2, 2) Imagery (C9)
Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ughout. cors: <u>n of one require</u>	d; check all f 	that apply ater-Staine 1, 2, 4A, a It Crust (B uatic Inver drogen Su idized Rhi idized Rhi esence of cent Iron F unted or St) ed Leaves (BS nd 4B) 11) rtebrates (B13 lifide Odor (C zospheres ald Reduced Iron Reduced Iron	 a) (except MI b) (except MI b) (except MI b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	RA ots (C3	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , a Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised <i>J</i>	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C. on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5)	2) (MLRA 1, 2, 2) Imagery (C9)
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Depth (inches): emarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ad Sparsely Vegetated Con	ughout. fors: <u>n of one require</u> 5) erial Imagery (B	d; check all f 	that apply ater-Staine 1, 2, 4A, a It Crust (B uatic Inver drogen Su idized Rhi idized Rhi esence of cent Iron F unted or St) ed Leaves (BS nd 4B) 11) rtebrates (B13 ilfide Odor (C zospheres ald Reduced Iron Reduced Iron Reduction in ⊺ tressed Plants	 a) (except MI b) (except MI b) (except MI b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	RA ots (C3	+ = heavy (mo - <u>Secondary I</u> Water-S 4A , a Drainage Dry-Sea Saturatio) Geomor Shallow FAC-Ne Raised <i>J</i>	pre clay); - = light (le ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (Le	2) (MLRA 1, 2, 2) Imagery (C9)
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Depth (inches): temarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY Vetland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ac Sparsely Vegetated Con ield Observations: Surface Water Present?	ughout. fors: <u>n of one require</u>) erial Imagery (B ncave Surface (Yes	d; check all f 	that apply) ater-Staine 1, 2, 4A, a It Crust (B uatic Inver drogen Su idized Rhi esence of cent Iron F unted or Si ner (Explai) nd Leaves (BS nd 4B) 11) rtebrates (B13 lifide Odor (C zospheres ald Reduced Iron Reduced Iron Reduced Iron Reduction in T tressed Plants in in Remarks	a) (except MI a) 1) 2) 2) 3) 1) 2) 3) 1) 2) 3) 2) 3) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4	RA ots (C3 6)	+ = heavy (mo	ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF eave Hummocks (D7	2) (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)
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Depth (inches): temarks: S = sand; S xtremely stiff soil - dry thro IYDROLOGY Vetland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Additioned to the second secon	ughout. fors: <u>n of one require</u>) erial Imagery (B ncave Surface (Yes	d; check all f 	that apply) ater-Staine 1, 2, 4A, a It Crust (B uatic Inver drogen Su idized Rhi esence of cent Iron F unted or Si ner (Explai) nd Leaves (BS nd 4B) 11) rtebrates (B13 lifide Odor (C zospheres ald Reduced Iron Reduced Iron Reduced Iron Reduction in T tressed Plants in in Remarks	 a) (except MI b) (except MI b) (construction of the second se		+ = heavy (mo	ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LF eave Hummocks (D7	2) (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)

	WETLAND DETERMIN	NATION DATA	FORM – West	tern Mounta	ins, Valleys and	Coast Region	
Project/Site: M	ledford Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Date: 4/7	7/2015
Applicant/Owner:	City of Medford				State: OR	Sampling Poin	nt: P07
Investigator(s):	Clare Kenny, Taya MacLea	an, C. Mirth Walker	· Section, T	ownship, Range	e: Section 32, T36S, I	R1W	
Landform (hillslope,	e, terrace, etc.): terrace			Local relief ((concave, convex, none):	concave Slop	e (%): <2
Subregion (LRR):	A, Northwest Forests and C	Coast	Lat: 42.397740	 Long	g: <u>-122.846600</u>	Datum: NA	AD 1983
Soil Map Unit Nam	ne: Unit 33: Coker c	lay			NWI	classification: none	
Are climatic / hydro	rologic conditions on the site	typical for this time	e of year?	Yes	s X No	(If no, explain	in Remarks)
Are Vegetation		, or Hydrology			Are "Normal Circumsta	•	
Are Vegetation	,Soil	, or Hydrology			lf needed, explain any		
	F FINDINGS – Attach	site map show		point locat	ions, transects, i	important featu	res, etc.
Hydrophytic Vege	station Present?	Yes	No X				
Hydric Soil Preser	nt?	Yes	No X	Is the Samp			
Wetland Hydrolog	•••	Yes	No X	within a Wet	tland? Yes	<u>No X</u>	
	ted to investigate green sign	evaluation nature.					
VEGETATION	1						
The Other turn		Absolute	Dominant	Indicator	Dominance Test w		
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	Status	Number of Domina	nt Species	
1.					That Are OBL, FAC	CW, or FAC:	1(A)
2.							
3.					Total Number of Do	ominant	
4.					Species Across All	Strata:	2(B)
		0%	= Total Cover				
Sapling/Shrub Stra	atum (Plot size: <u>10' i</u>	<u>r</u>)			Percent of Domina	nt Species	
1.					That Are OBL, FAC	CW, or FAC: <u>50</u>	<u>0%</u> (A/B)
2.					Prevalence Index	worksheet:	
3.					Total % Cover	r of: Multiply by:	I
4.					OBL species	0 x 1 =	0
5.					FACW species	0 x 2 =	0
			= Total Cover		FAC species	53 x 3 =	159
Herb Stratum	(Plot size: <u>5' r</u>)				FACU species	6 x 4 =	24
	arundinaceus	40%	Yes	FAC	UPL species	42 x 5 =	210
2. Bromus diand		40%	Yes	NOL	Column Totals:	101 (A)	393 (B)
3. Alopecurus pr		10%	No	FAC	Prevalence Inde		3.89
4. Dipsacus fullo		3%	No	FAC	Hydrophytic Vege		
5. Trifolium prate		3%	No	FACU		for Hydrophytic Vege	etation
6. Geranium diss		2%	No	NOL	2 - Dominance		
7. Cirsium vulga		2%	No	FACU	3 - Prevalence		
8. Acmispon am		1%	No	FACU		cal Adaptations ¹ (Pro	
9.	encanus	170		FACO		harks or on a separat	
3. 10.						on-Vascular Plants ¹	e shoety
10						/drophytic Vegetation	¹ (Evoloin)
· · · · · · · · · · · · · · · · · · ·			Telel Osuar				,
<u>Woody Vine Stratu</u> 1.	um (Plot size: <u>10' i</u>		= Total Cover		be present.	c soil and wetland hy	drology musi
2.					Hydrophytic		
		0% =	= Total Cover	<u> </u>	Vegetation	Yes No	Х
% Bare Ground in	Herb Stratum 0%				Present?		
Remarks:					Enter	ed by: tkm QC by	y: cmw

<i>(</i> , , , , , , , , , , , , , , , , , , ,							
(inches) Color (m	oist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-14 10YR 3	3/2 100					CL	
							· · · · · · · · · · · · · · · · · · ·
							· · · · · · · · · · · · · · · · · · ·
			·				·
			·				
/pe: C=Concentration, D	-Doplotion BM-E	Advand Matrix CS_Ca	warad or Coatad	Sand Craina	² Location:	PL=Pore Lining, M=N	Actrix
dric Soil Indicators: (Ap						r Problematic Hyd	
			-			-	
Histosol (A1)		Sandy Redox (2 cm Muc		
Histic Epipedon (A2)		Stripped Matrix				nt Material (TF2)	
Black Histic (A3)			Mineral (F1) (exc	ept MLRA 1)		llow Dark Surface (1	F12)
Hydrogen Sulfide (A4)		Loamy Gleyed			Other (Ex	plain in Remarks)	
Depleted Below Dark S	urface (A11)	Depleted Matrix	(F3)		2		
Thick Dark Surface (A1	2)	Redox Dark Su	rface (F6)		Indicators of	hydrophytic vegetat	ion and
Sandy Mucky Mineral (S1)	Depleted Dark	Surface (F7)		wetland hyd	drology must be pres	sent,
Sandy Gleyed Matrix (S	54)	Redox Depress	ions (F8)		unless distu	urbed or problematic	
Type: Depth (inches): emarks: S = sand; S	ii = silt; C = clay; L	_ = loam or loamy; co =	= coarse; f = fine;	,	ydric Soil Pres + = heavy (mor		No X
Type: Depth (inches): emarks: S = sand; S YDROLOGY		_ = loam or loamy; co =	= coarse; f = fine;	,			
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica	tors:		= coarse; f = fine;	,	+ = heavy (mor		ss clay)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica	tors:	check all that apply)	= coarse; f = fine; Leaves (B9) (exc	vf = very fine;	+ = heavy (mor	re clay); - = light (les	required)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indications (minimum imary Indicators (minimum	tors:	check all that apply)	Leaves (B9) (exc	vf = very fine;	+ = heavy (mor	re clay); - = light (les dicators (2 or more l ained Leaves (B9) (l	required)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica imary Indicators (minimur Surface Water (A1) High Water Table (A2)	tors:	check all that apply)Water-Stained	Leaves (B9) (exc I 4B)	vf = very fine;	+ = heavy (mor <u>Secondary In</u> Water-Sta 4A, an	re clay); - = light (les dicators (2 or more ained Leaves (B9) (l d 4B)	required)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica imary Indicators (minimur Surface Water (A1)	tors:	<u>check all that apply)</u> Water-Stained 1, 2, 4A, and	Leaves (B9) (exc I 4B))	vf = very fine;	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage	re clay); - = light (les dicators (2 or more f ained Leaves (B9) (l d 4B) Patterns (B10)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	tors: n of one required;	<u>check all that apply)</u> Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverted	Leaves (B9) (exc I 4B)) brates (B13)	vf = very fine;	+ = heavy (mor <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas	re clay); - = light (les dicators (2 or more ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2	tors: n of one required;	<u>check all that apply)</u> Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverted Hydrogen Sulfic	Leaves (B9) (exc l 4B)) brates (B13) de Odor (C1)	vf = very fine;	+ = heavy (mor <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation	re clay); - = light (les dicators (2 or more f ained Leaves (B9) (l d 4B) Patterns (B10)	required) MLRA 1, 2,
Type: Depth (inches): marks: S = sand; S YDROLOGY etland Hydrology Indication imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	tors: n of one required;	<u>check all that apply)</u> Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverted Hydrogen Sulfic Oxidized Rhizos	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv	vf = very fine;	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation) Geomorp	re clay); - = light (les <u>dicators (2 or more</u> ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2)	required) MLRA 1, 2,
Type: Depth (inches): marks: S = sand; S YDROLOGY etland Hydrology Indication imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	tors: n of one required;	<u>check all that apply)</u> Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4)	vf = very fine; eept MLRA	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A	re clay); - = light (les dicators (2 or more ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	tors: n of one required;	<u>check all that apply)</u> Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Re	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S	vf = very fine; eept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu	re clay); - = light (les <u>dicators (2 or more l</u> ained Leaves (B9) (l d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5)	required) MLRA 1, 2,) nagery (C9)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indication imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	tors: n of one required;)	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverted Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1)	vf = very fine; eept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised A	re clay); - = light (les dicators (2 or more l ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): marks: S = sand; S YDROLOGY etland Hydrology Indication imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A	tors: n of one required;) 6) erial Imagery (B7)	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfid Oxidized Rhizor Presence of Re Recent Iron Re Stunted or Stre Other (Explain in	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1)	vf = very fine; eept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised A	re clay); - = light (les <u>dicators (2 or more l</u> ained Leaves (B9) (l d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5)	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indication imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A Sparsely Vegetated Co	tors: n of one required;) 6) erial Imagery (B7)	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfid Oxidized Rhizor Presence of Re Recent Iron Re Stunted or Stre Other (Explain in	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1)	vf = very fine; eept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised A	re clay); - = light (les dicators (2 or more l ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): marks: S = sand; S YDROLOGY etland Hydrology Indication imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6)	tors: n of one required;) erial Imagery (B7) ncave Surface (B8	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfid Oxidized Rhizos Presence of Re Recent Iron Re Stunted or Stre Other (Explain in	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1) in Remarks)	vf = very fine; eept MLRA ving Roots (C3 Soils (C6)	+ = heavy (mor - <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised A	re clay); - = light (les dicators (2 or more l ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): emarks: S = sand; S YDROLOGY etland Hydrology Indica imary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on A Sparsely Vegetated Co eld Observations: urface Water Present?	tors: n of one required;) erial Imagery (B7) ncave Surface (B8 Yes	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Re Stunted or Stre Other (Explain in 3)	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches):	ving Roots (C3 Soils (C6) (LRR A)	+ = heavy (mor + = heavy (mor <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised Al Frost-Hea	re clay); - = light (les dicators (2 or more l ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LR ave Hummocks (D7)	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): emarks: S = sand; S YDROLOGY Yetland Hydrology Indicat rimary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on A Sparsely Vegetated Co eld Observations: Surface Water Present? Vater Table Present?	tors: n of one required; b) b) erial Imagery (B7) ncave Surface (B8 Yes Yes	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizor Presence of Re Recent Iron Re Stunted or Stre Other (Explain in 3)	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches): Depth (inches):	vf = very fine; eept MLRA ving Roots (C3 Soils (C6) (LRR A) >14	+ = heavy (mor + = heavy (mor <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised Al Frost-Hea	re clay); - = light (les dicators (2 or more 1 ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LR ave Hummocks (D7) Hydrology Present	required) MLRA 1, 2,) nagery (C9) R A)
Depth (inches): emarks: S = sand; S YDROLOGY Yetland Hydrology Indica rimary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A	tors: n of one required;) erial Imagery (B7) ncave Surface (B8 Yes	check all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizor Presence of Re Recent Iron Re Stunted or Stre Other (Explain in 3)	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Liv educed Iron (C4) duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches):	ving Roots (C3 Soils (C6) (LRR A)	+ = heavy (mor + = heavy (mor <u>Secondary In</u> Water-Sta 4A, an Drainage Dry-Seas Saturation Saturation Shallow A FAC-Neu Raised Al Frost-Hea	re clay); - = light (les dicators (2 or more l ained Leaves (B9) (I d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial Ir hic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LR ave Hummocks (D7)	required) MLRA 1, 2,) nagery (C9) R A)

Project/Site: Medford Urban Reserve LWI		City/County:	Medford UR	/ Jackson	Sampling Date: 4/	8/2015
Applicant/Owner: City of Medford				State: OR	Sampling Poir	
Investigator(s): Clare Kenny, Taya K. MacL	ean	Section, T	ownship, Rang	e: Section 32, T36S, F		
Landform (hillslope, terrace, etc.): terrace				(concave, convex, none):		be (%): 0
Subregion (LRR): A, Northwest Forests and C	Coast	Lat: 42.392390		g: -122.846200	Datum: N	
Soil Map Unit Name: Unit 35A: Cove of		Eut. <u>42.002000</u>			classification: none	10 1000
Are climatic / hydrologic conditions on the site		e of year?	Ye		(If no, explain	in Remarks)
	, or Hydrology	significantly		Are "Normal Circumsta		
Are Vegetation ,Soil	, or Hydrology	· ·		If needed, explain any		
SUMMARY OF FINDINGS - Attach	site map sho					
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Samp	oled Area		
Vetland Hydrology Present?	Yes X	No	within a We	tland? Yes	X No	
Precipitation prior to fieldwork: Dry spring	evaluation				<u> </u>	
Remarks:						
PEM Wetland W09. Connected to Swanson cr	eek and to wetlar	ids offsite (including	WD2009-0470)). Cattle present. This	portion of the site is	; not a hay
pasture. VEGETATION						
VEGETATION	Absolute	Dominant	Indicator	Dominance Test w		
Tree Stratum (Plot size: 30' r)	% Cover	Dominant				
1.		<u>Species?</u>	<u>Status</u>	Number of Dominar	·	0 (A)
2.		·		That Are OBL, FAC	vv, or FAC:	2(A)
3.		·	·			
4.		·		Total Number of Do		
т				Species Across All	Strata:	2(B)
Conling/Chruh Ctrotum (Dist size, 40)	0%	= Total Cover				
Sapling/Shrub Stratum (Plot size: <u>10' 1</u>)			Percent of Dominar		
1.				That Are OBL, FAC		<u>00%</u> (A/B)
2.				Prevalence Index		
3				Total % Cover	of: Multiply by:	
4				· · ·	0 x 1 =	0
5					75 x 2 =	150
	0%	= Total Cover		FAC species	<u>10</u> x 3 =	30
<u>Herb Stratum</u> (Plot size: <u>5' r</u>)				FACU species	0 x 4 =	0
1. Juncus patens	50%	Yes	FACW	UPL species	0 x 5 =	0
2. Carex praegracilis	25%	Yes	FACW	Column Totals:	85 (A)	180 (B)
3. Agrostis stolonifera	5%	No	FAC	Prevalence Inde	x = B/A =	<u>2.12</u>
4. Alopecurus pratensis	5%	No	FAC	Hydrophytic Veget	ation Indicators:	
5.				1 - Rapid Test f	or Hydrophytic Vege	etation
6.				X 2 - Dominance	Test is >50%	
7.				X 3 - Prevalence I	ndex is ≤3.0 ¹	
8.	_			4 - Morphologic	al Adaptations ¹ (Pro	vide supporting
9.	_			data in Rem	arks or on a separat	te sheet)
10.				5 - Wetland Nor	n-Vascular Plants ¹	
11.		· · · · · · · · · · · · · · · · · · ·			drophytic Vegetatior	n ¹ (Explain)
	85%	= Total Cover			soil and wetland hy	
Woody Vine Stratum (Plot size: <u>10' i</u>				be present.		
1.						
2.				Hydrophytic		
	0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum 15%				Present?		
Remarks:				Entere	ed by: tkm QC b	by: cmw

Depth	Matrix			Redox Fe	catures			
(inches) Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3 10Y	'R 3/2	100					CL	
3-12 5Y	2.5/1	98	10YR 4/6	2	С	М	С	
ype: C=Concentration	, D=Depletio	n, RM=Red	uced Matrix CS=Cove	ered or Coated	d Sand Grains.	² Location:	PL=Pore Lining, M=N	latrix.
ydric Soil Indicators:	(Applicable	to all LRRs	s, unless otherwise	noted.)		Indicators f	or Problematic Hydr	ric Soils ³ :
Histosol (A1)		_	Sandy Redox (St	5)		2 cm Mu	ck (A10)	
Histic Epipedon (A2))		Stripped Matrix (S6)		Red Par	ent Material (TF2)	
Black Histic (A3)			Loamy Mucky Mi	neral (F1) (exc	cept MLRA 1)	Very Sha	allow Dark Surface (T	F12)
Hydrogen Sulfide (A	4)	-	Loamy Gleyed M	atrix (F2)		Other (E	xplain in Remarks)	
Depleted Below Dar	k Surface (A	11)	Depleted Matrix ((F3)				
Thick Dark Surface	(A12)		X Redox Dark Surfa	ace (F6)		³ Indicators o	f hydrophytic vegetati	ion and
Sandy Mucky Minera	al (S1)		Depleted Dark S	urface (F7)		wetland hy	drology must be pres	sent,
Sandy Gleyed Matrix	(S4)	_	Redox Depressio	ons (F8)		unless dist	urbed or problematic	
Type: Depth (inches): Remarks: S = sand		= clay; L =	loam or loamy; co = o	coarse; f = fine	•	ydric Soil Pre + = heavy (mo		No s clay)
Type: Depth (inches): Remarks: S = sand HYDROLOGY Vetland Hydrology Ind	d; Si = silt; C			coarse; f = fine	•			
Type: Depth (inches): Remarks: S = sand HYDROLOGY Vetland Hydrology Ind	d; Si = silt; C		eck all that apply)		e; vf = very fine;	+ = heavy (mo		s clay)
Type: Depth (inches): Remarks: S = sand HYDROLOGY Vetland Hydrology Ind Primary Indicators (minir X_Surface Water (A1)	d; Si = silt; C icators: num of one r				e; vf = very fine;	+ = heavy (mo	ore clay); - = light (les	s clay) required)
Type: Depth (inches): emarks: S = sand IYDROLOGY Vetland Hydrology Ind rimary Indicators (minir X_Surface Water (A1)	d; Si = silt; C icators: num of one r		eck all that apply)	eaves (B9) (ex	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (les	s clay) required)
Type: Depth (inches): Itemarks: S = sand IYDROLOGY Vetland Hydrology Ind Irimary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3)	d; Si = silt; C icators: num of one r		eck all that apply)	eaves (B9) (ex	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more r tained Leaves (B9) (N	s clay) required)
Type: Depth (inches): Remarks: S = sand IYDROLOGY Vetland Hydrology Ind Irimary Indicators (minin X_Surface Water (A1) X_High Water Table (A	d; Si = silt; C icators: num of one r		eck all that apply) Water-Stained Le 1, 2, 4A, and 4	eaves (B9) (ex 4 B)	e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u> Water-S 4A, an	ndicators (2 or more r tained Leaves (B9) (N	s clay) required) MLRA 1, 2,
Type: Depth (inches): Cemarks: S = sand HYDROLOGY Vetland Hydrology Ind Primary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3)	d; Si = silt; C icators: num of one r 2)		eck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	eaves (B9) (ex 4B) rates (B13) e Odor (C1)	e; vf = very fine;	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (N nd 4B) e Patterns (B10)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): Cemarks: S = sand HYDROLOGY Vetland Hydrology Ind Primary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (Drift Deposits (B3)	d; Si = silt; C icators: num of one r 2) B2)		eck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) (ex 1B) rates (B13) e Odor (C1) oheres along L	; vf = very fine; cept MLRA	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (N ad 4B) Patterns (B10) son Water Table (C2)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): Cemarks: S = sand HYDROLOGY Vetland Hydrology Ind Primary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (Drift Deposits (B3)	d; Si = silt; C icators: num of one r 2) B2)		eck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	eaves (B9) (ex 1B) rates (B13) e Odor (C1) oheres along L	; vf = very fine; cept MLRA	+ = heavy (mo - <u>Secondary II</u> Water-S 4A, ar Drainage Dry-Sea Saturatio)Geomore	ndicators (2 or more r tained Leaves (B9) (N a 4B) Patterns (B10) son Water Table (C2)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): Remarks: S = sand TYDROLOGY Vetland Hydrology Ind Primary Indicators (minin X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (Drift Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B5)	d; Si = silt; C icators: num of one r 2) B2) B2)		eck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex 4B) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled	ccept MLRA	+ = heavy (mo	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) pon Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5)	s clay) required) MLRA 1, 2,) nagery (C9)
Type: Depth (inches): Cemarks: S = sand AYDROLOGY Vetland Hydrology Ind Primary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks	2; Si = silt; C icators: num of one r 2) B2) 34) (B6)	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex 4B) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1	ccept MLRA	+ = heavy (mo - <u>Secondary II</u> Water-S 4A, ar Drainage Dry-Sea: Saturatio) Geomory Shallow FAC-Nei Raised A	ore clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Cemarks: S = sand AYDROLOGY Vetland Hydrology Ind Primary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks	2; Si = silt; C icators: num of one r 2) B2) 34) (B6)	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex 4B) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1	ccept MLRA	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, ar Drainage Dry-Sea: Saturatio) Geomory Shallow FAC-Nei Raised A	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) pon Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5)	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Temarks: S = sand TYDROLOGY Vetland Hydrology Ind Trimary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks X Inundation Visible or Sparsely Vegetated	2; Si = silt; C icators: num of one r 2) B2) B2) 34) (B6) n Aerial Imag	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex 4B) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1	ccept MLRA	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, ar Drainage Dry-Sea: Saturatio) Geomory Shallow FAC-Nei Raised A	ore clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Remarks: S = sand TYDROLOGY Vetland Hydrology Ind Primary Indicators (minin X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks X Inundation Visible on Sparsely Vegetated	2; Si = silt; C icators: num of one r 2) B2) B2) 34) (B6) n Aerial Imag	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu	eaves (B9) (ex 4B) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1	ccept MLRA	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, ar Drainage Dry-Sea: Saturatio) Geomory Shallow FAC-Nei Raised A	ore clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): S = sand TYDROLOGY Vetland Hydrology Ind trimary Indicators (minin X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B3) X Algal Mat or Crust (B3) Surface Soil Cracks X Inundation Visible or Sparsely Vegetated ield Observations:	2; Si = silt; C icators: num of one r 2) B2) B2) B4) (B6) n Aerial Imag Concave Su	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex 4B) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1	ccept MLRA	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, ar Drainage Dry-Sea: Saturatio) Geomory Shallow FAC-Nei Raised A	ore clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Temarks: S = sand TYDROLOGY Vetland Hydrology Ind Trimary Indicators (minin X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks X Inundation Visible or Sparsely Vegetated Tield Observations: Surface Water Present?	d; Si = silt; C icators: num of one r 2) B2) B2) B4) (B6) n Aerial Imag Concave Su	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex 4B) rates (B13) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1 Remarks)	ccept MLRA	+ = heavy (mo	ore clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Depth (inches): Remarks: S = sand HYDROLOGY Wetland Hydrology Ind Primary Indicators (minir X Surface Water (A1) X High Water Table (A X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks X Inundation Visible or	(B6) (B6) (Concave Su Yes Yes Yes	equired; ch	eck all that apply) Water-Stained Le 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in No D No D	eaves (B9) (ex 1B) rates (B13) e Odor (C1) oheres along L uced Iron (C4) uction in Tilled sed Plants (D1 Remarks) epth (inches):	ccept MLRA	+ = heavy (mo	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI save Hummocks (D7)	s clay) required) MLRA 1, 2,) nagery (C9) R A)

Project/Site: Medfor	rd Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Date: 4/8/20)15
Applicant/Owner: City	v of Medford				State: OR	Sampling Point:	P09
Investigator(s): Clar	re Kenny, Taya K. MacLe	an	Section, T	ownship, Rang	e: Section 5, T37S, R1	IW	
Landform (hillslope, terra	ce, etc.): terrace			Local relief	(concave, convex, none):	concave Slope (%	%): <3
Subregion (LRR): A, N	Northwest Forests and Co	bast	Lat: 42.387490	Lon	g: -122.851300	Datum: NAD	1983
Soil Map Unit Name:	Unit 139A: Padiga	an clay (hydric)			NWI	classification: PEMC, P	FOC
Are climatic / hydrologi	c conditions on the site ty	pical for this time	of year?	Ye	s X No	(If no, explain in F	Remarks)
Are Vegetation		, or Hydrology	significantly of		Are "Normal Circumstar	nces" present? Yes	X No
Are Vegetation	,Soil	, or Hydrology	naturally prol		If needed, explain any		
	NDINGS – Attach s		ing sampling	point locat	ions, transects, i	mportant features	, etc.
Hydrophytic Vegetation	n Present?	Yes X	No				
Hydric Soil Present?		Yes X	No	Is the Samp			
Wetland Hydrology Pre	esent?	Yes <u>X</u>	No	within a We	tland? Yes	<u>X No</u>	
Precipitation prior to fie	eldwork: Dry spring e	valuation					
Remarks: Wetland W10 in WD20	07-0106. Approx. 15' fror	n stream. Broad d	epression.				
			op.000.0				
VEGETATION					-		
		Absolute	Dominant	Indicator	Dominance Test w	orksheet:	
	ot size: <u>30' r</u>)	<u>% Cover</u>	Species?	Status	Number of Dominan	t Species	
1.		<u></u>			That Are OBL, FAC	W, or FAC: 2	(A)
2.		<u></u>					
3.		<u></u>			Total Number of Do	minant	
4.		<u> </u>			Species Across All	Strata: 2	(B)
		=	Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>10' r</u>	_)			Percent of Dominan	t Species	
1.		<u>.</u>			That Are OBL, FAC	W, or FAC: <u>100%</u>	(A/B)
2.		<u> </u>			Prevalence Index w	vorksheet:	
3.					Total % Cover	of: Multiply by:	
4.					OBL species	0 x 1 =	0
5.					FACW species	40 x 2 = 8	80
		0% =	Total Cover		FAC species	40 x 3 = 1	20
Herb Stratum (Plo	ot size: <u>5' r</u>)				FACU species	2 x 4 =	8
1. Juncus patens		40%	Yes	FACW	UPL species	0 x 5 =	0
2. Festuca species		40%	Yes	FAC*	Column Totals:	82 (A) 2	208 (B)
3. Medicago polymor	rpha	2%	No	FACU	Prevalence Index	x = B/A = 2.5	4
4.					Hydrophytic Veget	ation Indicators:	
5.					1 - Rapid Test fo	or Hydrophytic Vegetati	on
6.					X 2 - Dominance	Test is >50%	
7.					X 3 - Prevalence I	ndex is ≤3.0 ¹	
8.					4 - Morphologica	al Adaptations ¹ (Provide	e supporting
9.					data in Rema	arks or on a separate sł	neet)
10.					5 - Wetland Nor	n-Vascular Plants ¹	
11.		- <u> </u>			Problematic Hyd	drophytic Vegetation ¹ (E	Explain)
		82% =	Total Cover		¹ Indicators of hydric	soil and wetland hydrol	logy must
Woody Vine Stratum	(Plot size: <u>10' r</u>				be present.	·	
1		<u> </u>					
2.		- <u> </u>			Hydrophytic	V V ··	
	_	=	Total Cover		Vegetation	Yes X No	_
% Bare Ground in Herb	i				Present?		
Remarks: * = Assumed	I FAC.				Entere	d by: tkm QC by: C	mw

	Matri			Redox Fe	ealures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-2	10YR 2/2	100					SiCL	
2-15	10YR 4/1	77	7.5YR 4/3	20	С	М	С	
			7.5YR 4/6	3	С	M, PL		
	·							
ype: C=Concer	ntration, D=Deplet	ion, RM=Red	uced Matrix CS=Cov	ered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=N	Matrix.
dric Soil Indic	ators: (Applicabl	e to all LRRs	s, unless otherwise	noted.)		Indicators f	or Problematic Hyd	ric Soils ³ :
Histosol (A1)			Sandy Redox (S	5)		2 cm Mu	ıck (A10)	
Histic Epiped	lon (A2)	-	Stripped Matrix (Red Par	ent Material (TF2)	
Black Histic (A	A3)	-	Loamy Mucky M		cept MLRA 1)		allow Dark Surface (1	TF12)
Hydrogen Sul		-	Loamy Gleyed N	latrix (F2)		Other (E	xplain in Remarks)	
	ow Dark Surface (– A11)	X Depleted Matrix			(. ,	
Thick Dark Su		,	Redox Dark Surf	. ,		³ Indicators o	f hydrophytic vegetat	tion and
 Sandy Mucky	/ Mineral (S1)	-	Depleted Dark S			wetland hy	drology must be pres	sent,
Sandy Gleyed		-	Redox Depressio			-	turbed or problematic	
Type: Depth (inches): emarks: S	B = sand; Si = silt;	C = clay; L =	loam or loamy; co =	coarse; f = fine		ydric Soil Pre + = heavy (mo		No ss clay)
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo	S = sand; Si = silt; Ogy Indicators:			coarse; f = fine		•		
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo	S = sand; Si = silt;			coarse; f = fine		+ = heavy (mo		ss clay)
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo	S = sand; Si = silt; Y ogy Indicators: s (minimum of one		eck all that apply)	eaves (B9) (ex	; vf = very fine;	+ = heavy (mo	ore clay); - = light (les	ss clay) required)
Type: Depth (inches): emarks: S YDROLOGY /etland Hydrolo rimary Indicators Surface Wate	B = sand; Si = silt; 7 9 bgy Indicators: 1 s (minimum of one ber (A1)		eck all that apply)	eaves (B9) (ex	; vf = very fine;	+ = heavy (mo	ndicators (2 or more tained Leaves (B9) (ss clay) required)
Type: Depth (inches): emarks: S YDROLOGY retland Hydrolo rimary Indicators Surface Water K High Water T K Saturation (A:	S = sand; Si = silt; Pagy Indicators: s (minimum of one er (A1) Table (A2) 3)		eck all that apply)	eaves (B9) (ex 4B)	; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more tained Leaves (B9) (l	ss clay) required)
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo rimary Indicators Surface Water XHigh Water T	S = sand; Si = silt; Pagy Indicators: s (minimum of one er (A1) Table (A2) 3)		eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb	eaves (B9) (ex 4B) rates (B13)	; vf = very fine;	+ = heavy (mo <u>Secondary In</u> Water-S 4A, an X Drainage	ndicators (2 or more tained Leaves (B9) (required) MLRA 1, 2,
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A:	B = sand; Si = silt; 9 9 9 9 9 1 1 1 1 1 1 1 1		eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11)	eaves (B9) (ex 4B) rates (B13)	; vf = very fine;	+ = heavy (mo	ndicators (2 or more tained Leaves (B9) (I nd 4B) e Patterns (B10)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S IYDROLOGY Vetland Hydrolo rimary Indicators Surface Wate X High Water T X Saturation (A: Water Marks	B = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2)		eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide	eaves (B9) (ex 4B) rates (B13) e Odor (C1)	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2	required) MLRA 1, 2,
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits	S = sand; Si = silt; Pagy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3)		eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li	; vf = very fine; cept MLRA iving Roots (C3	+ = heavy (mo - <u>Secondary In</u> Water-S 4A, an X Drainage Dry-Sea X Saturatio Shallow	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3)	required) MLRA 1, 2,
Type: Depth (inches): Temarks: S TYDROLOGY Vetland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits	S = sand; Si = silt; yogy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4)		eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary In</u> Water-S 4A, an X Drainage Dry-Sea X Saturatio Shallow	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits X Algal Mat or (S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5)		eck all that apply) Water-Stained Lu 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> Water-S 4A, ai X Drainage Dry-Sea X Saturatio X Geomor Shallow FAC-Nei	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3)	required) MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): emarks: S IVDROLOGY /etland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits X Algal Mat or (Iron Deposits Surface Soil (S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5)	e required; ch - - - - - - - - - - -	eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - Water-S 4A, an X Drainage Dry-Sea X Saturatio) X Geomor Shallow FAC-Ne X Raised A	ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5)	required) MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): emarks: S YDROLOGY /etland Hydrolo rimary Indicators Surface Water (High Water T (Saturation (A: Water Marks Sediment Dep Drift Deposits (Algal Mat or (Iron Deposits Surface Soil (Inundation Via	S = sand; Si = silt; Pgy Indicators: s (minimum of one or (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	e required; chr	eck all that apply) Water-Stained Li 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - Water-S 4A, an X Drainage Dry-Sea X Saturatio) X Geomor Shallow FAC-Ne X Raised A	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (1 nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2, 2) magery (C9) R A)
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits X Algal Mat or (Iron Deposits Surface Soil (Inundation Vis Sparsely Veg	S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) sible on Aerial Imagetated Concave S	e required; chr	eck all that apply) Water-Stained Li 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - Water-S 4A, an X Drainage Dry-Sea X Saturatio) X Geomor Shallow FAC-Ne X Raised A	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (1 nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2, 2) magery (C9) R A)
Type: Depth (inches): emarks: S IYDROLOGY /etland Hydrolo rimary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Sediment Dep Drift Deposits Surface Soil (Inon Deposits Surface Soil (Inundation Via Sparsely Veg ield Observatio	S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) sible on Aerial Imagetated Concave S ms:	e required; chr - - - - - - - - - - - - - - - - - - -	eck all that apply) Water-Stained Li 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosy Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled sed Plants (D1	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - Water-S 4A, an X Drainage Dry-Sea X Saturatio) X Geomor Shallow FAC-Ne X Raised A	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (1 nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2, 2) magery (C9) R A)
Depth (inches): Temarks: S S S S S S S S S S S S S S	S = sand; Si = silt; pgy Indicators: s (minimum of one er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) sible on Aerial Imagetated Concave S ons: resent? Yes	e required; chu - - - - - - - - - - - - - - - - - - -	eck all that apply) Water-Stained Li 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled sed Plants (D1) n Remarks)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo	pre clay); - = light (les ndicators (2 or more tained Leaves (B9) (1 nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2, 2) magery (C9) R A)
Type: Depth (inches): Remarks: S Semarks: S Semarks: S Semarks: S Semarks: S Surface Water X Saturation (A: Water Marks Sediment Deposits X Algal Mat or (A: Drift Deposits X Algal Mat or (C) Iron Deposits Surface Soil (C) Inundation Vis Sparsely Veg Surface Water Pr	S = sand; Si = silt; pgy Indicators: s (minimum of one or (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) sible on Aerial Imagetated Concave S ins: resent? Yes sent? Yes	e required; chr - - - - - - - - - - - - - - - - - - -	eck all that apply) Water-Stained Li 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress Other (Explain in No X D	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li luced Iron (C4) uction in Tilled sed Plants (D1 a Remarks)	cept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo	ndicators (2 or more tained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7)	required) MLRA 1, 2, 2) magery (C9) R A)

Project/Site: Medford Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Date: 4/8/	2015
Applicant/Owner: City of Medford				State: OR	Sampling Point:	P10
Investigator(s): Clare Kenny, Taya K. MacLe	an	Section, T	ownship, Range	e: Section 9, T37S, R	1W	
Landform (hillslope, terrace, etc.): terrace			Local relief (concave, convex, none):	concave Slope	(%): <5
Subregion (LRR): A, Northwest Forests and Co	ast	Lat: 42.372640	 Long	g: -122.834200	Datum: NAI	D 1983
Soil Map Unit Name: Unit 139A: Padiga					classification: PABHx	
Are climatic / hydrologic conditions on the site ty		of year?	Yes	s X No	(If no, explain ir	n Remarks)
Are Vegetation,Soil	, or Hydrology	significantly of	disturbed? A	re "Normal Circumsta	inces" present? Yes	X No
Are Vegetation,Soil	, or Hydrology	naturally prob	blematic? (If	f needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map show	ing sampling	point locati	ons, transects,	important feature	es, etc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Sampl	ed Area		
Wetland Hydrology Present?	Yes X	No	within a Wet	land? Yes	X No	_
Precipitation prior to fieldwork: Dry spring e Remarks: PEM wetland W11. Former pear orchard. Mappe		runs diagonally th	rough parcel.			
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test v	vorksheet:	
<u>Tree Stratum</u> (Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Domina	nt Species	
1.				That Are OBL, FAC	CW, or FAC: 1	(A)
2						
3.				Total Number of Do	ominant	
4.				Species Across All	Strata: 1	(B)
	0% =	Total Cover				
Sapling/Shrub Stratum (Plot size: <u>10' r</u>	_)			Percent of Domina	nt Species	
1.				That Are OBL, FAC		<u>%</u> (A/B)
2.				Prevalence Index	•	· · · ·
3.				Total % Cove		
4.				OBL species	85 x 1 =	85
5.				FACW species	0 x 2 =	0
	0% =	Total Cover		FAC species	10 x 3 =	30
Herb Stratum (Plot size: <u>5' r</u> _)				FACU species	0 x 4 =	0
1. Typha latifolia	75%	Voo	OBL	UPL species	$0 \times 5 =$	0
	10%	Yes No	OBL	Column Totals:	<u> </u>	115 (B)
	10%			Prevalence Inde		.21
 Festuca species 4. 	10%	No	FAC*	Hydrophytic Vege		
5.					for Hydrophytic Vegeta	ation
				X 2 - Dominance		
6.						
7.				X 3 - Prevalence		
8.					cal Adaptations ¹ (Provi	
9.					arks or on a separate	sheet)
10					n-Vascular Plants ¹	
11					drophytic Vegetation ¹	
Woody Vine Stratum (Plot size: <u>10' r</u>		Total Cover		'Indicators of hydrid be present.	c soil and wetland hyd	rology must
1.						
2.				Hydrophytic		
	=	Total Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum 5%				Present?		
Remarks: * = Assumed FAC. Mowed vegetation.				Enter	ed by: <u>tkm</u> QC by:	cmw

(inches) Color (moist) % Type ¹ Loc ² Texture Remarks 0-3 10YR 4/1 80 7.5YR 4/8 20 C M C Roots and OM 3-16 10YR 4/1 80 7.5YR 4/8 20 C M C Roots and OM 3-16 10YR 4/1 80 7.5YR 4/8 20 C M C Roots and OM 3-16 10YR 4/1 80 7.5YR 4/8 20 C M C Roots and OM 3-16 10YR 4/1 80 7.5YR 4/8 20 C M C Roots and OM 3-16 10YR 4/1 80 7.5YR 4/8 20 C M C Roots and OM 3-16 10YR 4/16 50 10 Relax 50 Relax 50 <td< th=""><th>Depth</th><th>Matrix</th><th>(</th><th></th><th>Redox Fe</th><th>eatures</th><th></th><th></th><th></th></td<>	Depth	Matrix	(Redox Fe	eatures			
3-16 10YR 4/1 80 7.5YR 4/6 20 C M C Type:	(inches) C	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix. Indicators: Indicators: Indicators: Note Name Histissel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histissel (A1) Sandy Redox (S5) 2 cm Muck (A10) Histissel (A1) Loamy Mucky Minoral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Understand Usery Shallow Dark Surface (TF12) Other (Explain in Remarks) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F5) *Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) welland hydrology must be present, unless disturbed or problematic. Type:	0-3	10YR 3/1	100					SiC	Roots and OM
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1)	3-16	10YR 4/1	80	7.5YR 4/6	20	С	М	С	
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosci (A1)									
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1)									_
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1)									
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1)									_
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1)									_
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histos (A1)									_
	Type: C=Concentra	ation, D=Depleti	on, RM=Re	educed Matrix CS=Cov	ered or Coated	Sand Grains.	² Location: I	PL=Pore Lining, M=	Matrix.
Istic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) User Stripped Matrix (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) X Depleted Balow Dark Surface (A11) X Thick Dark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Estrictive Layer (if present): Type:	ydric Soil Indicato	ors: (Applicable	e to all LR	Rs, unless otherwise	noted.)		Indicators for	or Problematic Hyd	Iric Soils ³ :
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) X Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) ⁹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Secondary Indicators: Type: Hydric Soil Present? Yes X No Off = Organic matter YDROLOGY Secondary Indicators (2 or more required) YUROLOGY Water-Stained Leaves (B9) (except MLRA 4A, and 4B) At an 4B) X saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Ad and 4B) Satiffied Odor (C1) X Saturation Nisble	Histosol (A1)			Sandy Redox (S	5)		2 cm Mu	ck (A10)	
	Histic Epipedon	(A2)		Stripped Matrix ((S6)		Red Par	ent Material (TF2)	
X Depleted Below Dark Surface (A11) X Depleted Matrix (F3) 3 ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. cestrictive Layer (if present): Type: Hydric Soil Present? Yes X No cemarks: S = sand; Si = silt; C = clay; L = loarn or loarny; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay) "OM" = Organic matter YDROLOGY Vetland Hydrology Indicators: inimaum of one required: check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Y Bould and fight of the present (R1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sufface Mater Ka(B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) X Saturation Visible on Aerial Imagery (C9) Dirit Deposits (B3) OxidIzed Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) FAc-Neutral Test (D5) Surface Soil Cracks (B6	Black Histic (A3)	3)		Loamy Mucky M	ineral (F1) (exc	ept MLRA 1)	Very Sha	allow Dark Surface (TF12)
X Depleted Below Dark Surface (A11) X Depleted Matrix (F3) ³ Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. testrictive Layer (if present): Type: Hydric Soil Present? Yes X No Depth (inches):				Loamy Gleyed M	Aatrix (F2)				
			A11)		. ,		`	. ,	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. estrictive Layer (if present): Type: Hydric Soil Present? Yes X No Depth (inches): Hydric Soil Present? Yes X No No emarks: S = sand; Si = silt; C = clay; L = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay) "Odd "OM" = Organic matter Imary Indicators: Imary Indicators (2 or more required) YDROLOGY Valend Hydrology Indicators: Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Surface Water (A1) Water Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) 4A, and 4B) X Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) X Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduc			,	Redox Dark Surf	face (F6)		³ Indicators o	f hydrophytic vegeta	tion and
Sandy Gleyed Matrix (S4)	 Sandy Mucky M	lineral (S1)					wetland hy	drology must be pre	sent,
Type:							-		
Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) X Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) X Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): >16 Water Table Present? Yes No X Depth (inches): >16 Saturation Present? Yes X No Depth (inches): >16 Observations?	Depth (inches): emarks: S =		C = clay; L	= loam or loamy; co =	coarse; f = fine	•			
High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) X Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) X Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6)	Depth (inches): temarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology	natter			coarse; f = fine	•	+ = heavy (mo	ore clay); - = light (le	ss clay)
X Salt Crust (B11)	Depth (inches): Remarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology	natter / Indicators: minimum of one		check all that apply)		; vf = very fine;	+ = heavy (mo	ore clay); - = light (le	ss clay)
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) X Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): >16 Water Table Present? Yes No X Depth (inches): >16 Saturation Present? Yes X No Yes No	Depth (inches): Remarks: S = "OM" = Organic n HYDROLOGY Vetland Hydrology Primary Indicators (n Surface Water (.	natter Indicators: minimum of one (A1)		check all that apply)	eaves (B9) (ex e	; vf = very fine;	+ = heavy (mo	ore clay); - = light (le ndicators (2 or more rained Leaves (B9) (ss clay)
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Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Yes No	Depth (inches): emarks: S = 'OM" = Organic n IYDROLOGY /etland Hydrology rimary Indicators (n Surface Water (A High Water Tabl XSaturation (A3)	matter Indicators: minimum of one (A1) Ie (A2)		check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11)	eaves (B9) (ex o 4B)	; vf = very fine;	+ = heavy (mo - <u>Secondary Ir</u> Water-S Uater-S Drainage	ndicators (2 or more andicators (2 or more and Leaves (B9) (and 4B) Patterns (B10)	ss clay) required) (MLRA 1, 2,
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Vegetated Concave Surface (B8) Vestard Depth (inches): Surface Water Present? Yes No X Depth (inches): Vater Table Present? Yes No X Depth (inches): >16 Saturation Present? Yes X No Depth (inches): 4 Yes X No	Depth (inches): emarks: S = "OM" = Organic n IYDROLOGY /etland Hydrology rimary Indicators (n 	matter Indicators: minimum of one (A1) Ile (A2) 1)		<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb	eaves (B9) (ex o 4B) rates (B13)	; vf = very fine;	+ = heavy (mo	ndicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2	<u>required)</u> (MLRA 1, 2, 2)
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Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) ield Observations: Ves No Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches):	Depth (inches): Temarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology Irimary Indicators (n Surface Water (n High Water Tabl X Saturation (A3) Water Marks (B ² Sediment Depos Drift Deposits (B	(A1) (A1) (A2) (33)		check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li	; vf = very fine; cept MLRA	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturation) X Geomore	ndicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2)	<u>required)</u> (MLRA 1, 2, 2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) ield Observations: Frost-Heave Hummocks (D7) ield Observations: No X Depth (inches): Wetland Hydrology Present? Saturation Present? Yes No X Depth (inches): >16 Saturation Present? Yes X No Depth (inches): 4	Depth (inches): emarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology rimary Indicators (n Surface Water (A High Water Table X Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (B Algal Mat or Cru	matter Indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4)		Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4)	; vf = very fine; cept MLRA	+ = heavy (mo <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio X Geomorp Shallow	ndicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3)	<u>required)</u> (MLRA 1, 2, 2)
Sparsely Vegetated Concave Surface (B8) ield Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes Yes X No Depth (inches): 4	Depth (inches): emarks: S = "OM" = Organic n HYDROLOGY Vetland Hydrology rimary Indicators (n Surface Water (A High Water Table X Saturation (A3) Water Marks (B ²) Sediment Depose Drift Deposits (B Algal Mat or Cru Iron Deposits (B	matter Indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35)		Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red	eaves (B9) (exe 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio X Geomorp Shallow FAC-Net	ndicators (2 or more adicators (2 or more ained Leaves (B9) (ad 4B) P Patterns (B10) son Water Table (C2 on Visible on Aerial I ohic Position (D2) Aquitard (D3) utral Test (D5)	ss clay) required) (MLRA 1, 2, 2) magery (C9)
Wetland Hydrology Present? Surface Water Present? Yes No X Depth (inches):	Depth (inches): emarks: S = "OM" = Organic n IYDROLOGY /etland Hydrology rimary Indicators (n Surface Water (n High Water Tabl X Saturation (A3) Water Marks (B Sediment Depos Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra	matter Indicators: minimum of one (A1) de (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	required; o	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio) X Geomory Shallow FAC-Nei Raised A	andicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, 2) magery (C9) RR A)
Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Water Table Present? Yes No X Depth (inches): >16 Yetland Hydrology Present? Saturation Present? Yes X No Depth (inches): 4 Yes X No	Depth (inches): emarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology rimary Indicators (n Surface Water (a High Water Table X Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib	matter Indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial Ima	required; of gery (B7)	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain ir	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio) X Geomory Shallow FAC-Nei Raised A	andicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, 2) magery (C9) RR A)
Water Table Present? Yes No X Depth (inches): >16 Wetland Hydrology Present? Saturation Present? Yes X No Depth (inches): 4 Yes X No	Depth (inches): emarks: S = "OM" = Organic n IYDROLOGY /etland Hydrology rimary Indicators (n Surface Water (a High Water Tabl X Saturation (A3) Water Marks (B Sediment Depos Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib	matter Indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial Ima	required; of gery (B7)	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain ir	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio) X Geomory Shallow FAC-Nei Raised A	andicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, 2) magery (C9) RR A)
Saturation Present? Yes X No Depth (inches): 4 Yes X No	Depth (inches): Temarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Surface Water (A Saturation (A3) Water Marks (B ² Sediment Deposits Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta	matter Indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial Ima ated Concave S	required; of gery (B7)	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain ir	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio) X Geomory Shallow FAC-Nei Raised A	andicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, 2) magery (C9) RR A)
	Depth (inches): Temarks: S = "OM" = Organic n IYDROLOGY Vetland Hydrology rimary Indicators (n Surface Water (A High Water Table X Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta ield Observations	matter minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aerial Ima ated Concave S ::	required; of gery (B7)	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain in	eaves (B9) (exe 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) fuction in Tilled sed Plants (D1) n Remarks)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio) X Geomory Shallow FAC-Nei Raised A	andicators (2 or more rained Leaves (B9) (and 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF	ss clay) <u>required)</u> (MLRA 1, 2, 2) magery (C9) RR A)
	Depth (inches): Remarks: S = "OM" = Organic n HYDROLOGY Vetland Hydrology Primary Indicators (n Surface Water (A High Water Table X Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta Surface Water Pres	matter Indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aerial Ima ated Concave S :: sent? Yes	required; of gery (B7)	<u>check all that apply</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain in	eaves (B9) (ex 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1) n Remarks) Depth (inches):	cept MLRA	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Dry-Seas X Saturatic X Saturatic X Geomory Shallow FAC-Neu Raised A Frost-He	adicators (2 or more radicators (2 or more rained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I ohic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF ave Hummocks (D7	required) (MLRA 1, 2, 2) magery (C9) RR A)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inches): Remarks: S = "OM" = Organic n HYDROLOGY Vetland Hydrology Primary Indicators (n Surface Water (a High Water Table X Saturation (A3) Water Marks (B Sediment Deposits Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta Surface Water Press Water Table Present?	matter minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aerial Ima ated Concave S :: sent? Yes 2 Yes	required; o gery (B7) urface (B8)	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain in No X No X	eaves (B9) (exe 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1) n Remarks) Depth (inches):	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Dry-Seas X Saturatic X Saturatic X Geomory Shallow FAC-Neu Raised A Frost-He	re clay); - = light (le ndicators (2 or more ained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF ave Hummocks (D7 Hydrology Presen	required) (MLRA 1, 2, (MLRA 1, 2, 2) magery (C9) RR A) ()
	Depth (inches): Remarks: S = "OM" = Organic n HYDROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A High Water Table X Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Sparsely Vegeta Surface Water Present Surface Water Present Saturation Present? (includes capillary fr	matter indicators: minimum of one (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial Ima ated Concave S i: sent? Yes of Yes ringe)	required; of gery (B7) urface (B8) X	Check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Rec Recent Iron Red Stunted or Stres Other (Explain in No X No X No C	eaves (B9) (exe 4B) rates (B13) e Odor (C1) pheres along Li duced Iron (C4) luction in Tilled sed Plants (D1) n Remarks) Depth (inches): Depth (inches):	; vf = very fine; ; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)) (LRR A) 	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas X Saturatio X Geomorp Shallow FAC-Neu Raised A Frost-He Wetland	re clay); - = light (le ndicators (2 or more ained Leaves (B9) (nd 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) ant Mounds (D6) (LF ave Hummocks (D7 Hydrology Presen	required) (MLRA 1, 2, (MLRA 1, 2, 2) magery (C9) RR A) ()

Project/Site:	Medford Urban Reserve LWI			City/County:	Medford UR /	Jackson	Sampling Da	te: <u>4/8/2015</u>	5
Applicant/Owner	City of Medford					State: OR	Sampling	g Point:	P11
Investigator(s):	Clare Kenny, Taya K. Mac	Lean		Section, T	ownship, Rang	e: Section 34, T37S, R	(1W		
Landform (hillslop	e, terrace, etc.): shoulder				Local relief	(concave, convex, none):	concave	Slope (%):	: <3
Subregion (LRR)	: A, Northwest Forests and	Coast	Lat: 4	42.312010	 Lon	g: -122.797100	Datu	m: NAD 198	83
Soil Map Unit Na			-		_	NWI	classification:	none	
Are climatic / hyd	drologic conditions on the site	e typical for this time	e of ye	ar?	Ye	s X No	(If no, e	kplain in Rer	marks)
Are Vegetation	,Soil	, or Hydrology	5	significantly	disturbed? A	Are "Normal Circumstar	nces" present?	Yes X	No
Are Vegetation	,Soil	, or Hydrology		naturally pro		If needed, explain any			
SUMMARY C	F FINDINGS – Attach		wing	sampling	point locat	ions, transects, i	mportant fe	eatures, e	etc.
	getation Present?	Yes X	No						
Hydric Soil Pres	ent?	Yes	No	X	Is the Samp				
Wetland Hydrold		Yes	No	<u>X</u>	within a We	tland? Yes	No	<u>X</u>	
Precipitation prio	r to fieldwork: Dry spring	g evaluation							
Remarks: Former pond creater	ated in upland. Water likely u	used for irrigation of	landso	caping for ac	liacent home as	s evidenced by irrigatio	n pipes.		
-		Ũ		1 0		, ,	· ·		
VEGETATIO	N								
Trac Stratum		Absolute		Dominant	Indicator	Dominance Test w			
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>		Species?	<u>Status</u>	Number of Dominar			
1.			_			That Are OBL, FAC	W, or FAC:	2	(A)
2.			_						
3.			-			Total Number of Do			
4.			_			Species Across All	Strata:	2	(B)
Cooling/Chauk Ct			= Tota	l Cover					
Sapling/Shrub St	ratum (Plot size: <u>10</u>	<u>r_)</u>				Percent of Dominan	t Species		
1. Salix lemmo	nii	10%	_	Yes	FACW	That Are OBL, FAC		<u>100%</u>	(A/B)
2.			_			Prevalence Index v		h	
3.			-			Total % Cover		by:	
4.			_			· · · · · · · · · · · · · · · · · · ·	0 x 1 =	0	
5.			_			· · · ·	10 x 2 =	20	
		10%	= Tota	I Cover		· · ·	97 x 3 =	291	
Herb Stratum	(Plot size: <u>5' r</u>)					· ·	0 x 4 =	0	
1. Alopecurus p	pratensis	95%	_	Yes	FAC	· ·	0 x 5 =	0	
2. Rumex crisp	ous	2%	_	No	FAC		07 (A)	311	(B)
3.			_			Prevalence Inde		<u>2.91</u>	
4.			_			Hydrophytic Veget	ation Indicato	ors:	
5.			_			1 - Rapid Test fo	or Hydrophytic	Vegetation	
6.			_			X 2 - Dominance			
7.			_			X 3 - Prevalence I	ndex is ≤3.0 ¹		
8.			_			4 - Morphologica	al Adaptations	¹ (Provide s	upporting
9.			_			data in Rema	arks or on a se	parate shee	ət)
10.			_			5 - Wetland Nor	n-Vascular Pla	nts ¹	
11.			_			Problematic Hyd	drophytic Vege	tation ¹ (Exp	olain)
			= Tota	l Cover		¹ Indicators of hydric	soil and wetla	nd hydrolog	jy must
Woody Vine Stra	tum (Plot size: <u>10</u>	<u>r_)</u>				be present.			
1. 2.			-			Hydrophytic			
<i></i>		0%	– Toto	l Cover		Vegetation	Yes X	No	
% Bare Ground i	n Herb Stratum 3%		- 10ld	00761		Present?	<u> </u>		-
		, <u> </u>					d by 11		14/
Remarks:						Entere	d by: tkm	QC by: cm	vv

Salix sp. May be relict of wetter hydrology in the past.

•	Ma			Rec	dox Features		-	
(inches)	Color (moist)	%	Color (moist	t) %	Type ¹	Loc ²	Texture	Remark
0-2	10YR 3/2	100	_				CL	roots
2-5	10YR 3/2	95	7.5YR 4/6	6 5	С	М	CL	
5-16	10YR 3/2	100					С	
			_					
ype: C=Conce	ntration, D=Depl	etion, RM=Re	educed Matrix CS=	=Covered or C	coated Sand Grains	. ² Location:	PL=Pore Lining, M=I	Matrix.
dric Soil Indic	cators: (Applical	ole to all LRF	Rs, unless otherv	vise noted.)		Indicators	for Problematic Hyd	lric Soils ³ :
Histosol (A1))		Sandy Redo	ox (S5)		2 cm M	uck (A10)	
Histic Epiped	don (A2)		Stripped Ma	atrix (S6)		Red Pa	rent Material (TF2)	
Black Histic ((A3)		Loamy Muc	ky Mineral (F1) (except MLRA 1)	Very Sh	allow Dark Surface (TF12)
Hydrogen Su			Loamy Gley	ed Matrix (F2))	Other (E	Explain in Remarks)	
	low Dark Surface	(A11)	Depleted Ma					
 Thick Dark S		()		Surface (F6)		³ Indicators of	of hydrophytic vegeta	tion and
	y Mineral (S1)			ark Surface (F	7)	wetland h	ydrology must be pre	sent,
	d Matrix (S4)			essions (F8)	,	unless dis	turbed or problemation	C.
estrictive Laye	r (if procent);							
emarks: S	S = sand; Si = sil		•		= fine; vf = very fin	• •	ore clay); - = light (le	• •
Depth (inches): emarks: S Redox" / color m	S = sand; Si = sil nottles in 2-5" lay		•		= fine; vf = very fin	e; + = heavy (m		ss clay)
Depth (inches): emarks: S Redox" / color m	S = sand; Si = sil nottles in 2-5" lay		•		= fine; vf = very fin	e; + = heavy (m	ore clay); - = light (le	ss clay)
Depth (inches): emarks: S Redox" / color m	S = sand; Si = sil nottles in 2-5" lay Y ogy Indicators:	er could possi	•	g material. Not	= fine; vf = very fin	e; + = heavy (m sions, because	ore clay); - = light (le it does not meet the	ss clay) landform definitio
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators	S = sand; Si = sil nottles in 2-5" lay Y ogy Indicators: s (minimum of o	er could possi	ibly be pond lining	y material. Not γ)	= fine; vf = very fin t F8, Redox Depres	e; + = heavy (m sions, because <u>Secondary</u>	ore clay); - = light (le it does not meet the ndicators (2 or more	ss clay) landform definitio <u>required)</u>
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators Surface Wate	S = sand; Si = sil nottles in 2-5" lay Y Dogy Indicators: s (minimum of or er (A1)	er could possi	ibly be pond lining heck all that apply Water-Stain	y material. Not y) ed Leaves (B	= fine; vf = very fin	e; + = heavy (m sions, because <u>Secondary</u> Water-S	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (ss clay) landform definitio <u>required)</u>
Depth (inches): emarks: S Redox" / color m YDROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water T	S = sand; Si = sil nottles in 2-5" lay Y ogy Indicators: s (minimum of or er (A1) Fable (A2)	er could possi	ibly be pond lining heck all that apply Water-Stain 1, 2, 4A,	y material. Not γ) ed Leaves (Β and 4 B)	= fine; vf = very fin t F8, Redox Depres	e; + = heavy (m sions, because <u>Secondary</u> Water-S 4A, a	ore clay); - = light (le it does not meet the <u>indicators (2 or more</u> Stained Leaves (B9) (nd 4B)	ss clay) landform definitio <u>required)</u>
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water T Saturation (A	S = sand; Si = sil nottles in 2-5" lay Y ogy Indicators: s (minimum of or er (A1) Γable (A2) \3)	er could possi	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f	y material. Not y) ed Leaves (B: and 4B) 311)	9) (except MLRA	e; + = heavy (m sions, because <u>Secondary</u> Water-S 4A, a Drainag	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10)	ss clay) landform definitio <u>required)</u> [MLRA 1, 2,
Depth (inches): emarks: S Redox" / color m /YDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y Dogy Indicators: s (minimum of or er (A1) Fable (A2) (A3) ; (B1)	er could possi	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f	y material. Not y) ed Leaves (B and 4B) 311) ertebrates (B1	9) (except MLRA	e; + = heavy (m sions, because <u>Secondary</u> Water-S 4A, a Drainag Dry-Sea	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) Ison Water Table (C2	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2)
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Fable (A2) (A3) s (B1) eposits (B2)	er could possi	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve	y material. Not y) led Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C	9) (except MLRA	e; + = heavy (m sions, because <u>Secondary</u> Water-S 4A, a Drainag Dry-Sea Saturati	ore clay); - = light (le it does not meet the <u>Indicators (2 or more</u> Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2)
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y bgy Indicators: s (minimum of or er (A1) Fable (A2) A3) s (B1) eposits (B2) s (B3)	er could possi	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh	y material. Not y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al	 = fine; vf = very fin t F8, Redox Depres 9) (except MLRA 3) 4) <	e; + = heavy (m sions, because <u>Secondary</u> Water-S 4A, a Drainag Dry-Sea Saturati C3)Geomol	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2)	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2)
Depth (inches): emarks: S Redox" / color m (YDROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Table (A2) A3) ; (B1) eposits (B2) s (B3) Crust (B4)	er could possi	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) (1) ong Living Roots (Conducted (C4)) 	e; + = heavy (m sions, because <u>Secondary</u> Water-S 4A, a Drainag Dry-Sea Saturati C3) Geomol	ore clay); - = light (le it does not meet the indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) uson Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3)	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2)
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Fable (A2) (A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	er could possi	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror Reduction in	 a) b) (except MLRA c) (except MLRA c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (e; + = heavy (m sions, because <u>Secondary</u> Water-S Water-S Drainag Dry-Sea Dry-Sea Saturati C3)Geomol Shallow FAC-Ne	ore clay); - = light (le it does not meet the it does not meet the <u>Indicators (2 or more</u> Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5)	ss clay) landform definitio <u>required)</u> [MLRA 1, 2, 2) magery (C9)
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Γable (A2) (A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	ne required; c	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror Reduction in Stressed Plant	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 4) 5) (except MLRA 5) 6) (except MLRA 6) (except MLRA 7) 8) 7) 8) 7) 7) 7) 8) 7) 7)	e; + = heavy (m sions, because 	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2) magery (C9)
Depth (inches): emarks: S Redox" / color m //PDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay y y y y y gy Indicators: s (minimum of or er (A1) Table (A2) (A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Ir	ne required; c	heck all that apply water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror Reduction in	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 4) 5) (except MLRA 5) 6) (except MLRA 6) (except MLRA 7) 8) 7) 8) 7) 7) 7) 8) 7) 7)	e; + = heavy (m sions, because 	ore clay); - = light (le it does not meet the it does not meet the <u>Indicators (2 or more</u> Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5)	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2) magery (C9)
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Fable (A2) (A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Ir getated Concave	ne required; c	heck all that apply water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror Reduction in Stressed Plant	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 4) 5) (except MLRA 5) 6) (except MLRA 6) (except MLRA 7) 8) 7) 8) 7) 7) 7) 8) 7) 7)	e; + = heavy (m sions, because 	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2) magery (C9)
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Iron Deposits Surface Soil Inundation Vi Sparsely Veg	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Table (A2) (A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial In getated Concave Dns:	ne required; c	heck all that apply water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror Reduction in Stressed Plant	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 4) 5) (except MLRA 5) 6) (except MLRA 6) (except MLRA 7) 8) 7) 8) 7) 7) 7) 8) 7) 7)	e; + = heavy (m sions, because 	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2) magery (C9)
Depth (inches): emarks: S Redox" / color m IVDROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Iron Deposits Surface Soil Inundation Vi Sparsely Veg	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Fable (A2) (A3) c (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial In getated Concave Dns: Present? Ye	ne required; c	heck all that apply water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C nizospheres al f Reduced Iror Reduction in Stressed Plant	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) (C4) Tilled Soils (C6) ts (D1) (LRR A) s) 	a; + = heavy (m sions, because <u>Secondary</u> Water-S Water-S Urainag Dry-Sea Dry-Sea Dry-Sea Saturati Saturati 3)Geomol Shallow FAC-Ne Raised Frost-H	ore clay); - = light (le it does not meet the it does not meet the <u>Indicators (2 or more</u> Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF eave Hummocks (D7	ss clay) landform definitio <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (M
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sil nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Fable (A2) (A3) c (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial In getated Concave Dns: Present? Ye	nagery (B7) Surface (B8)	heck all that apply Water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y material. Not y) ed Leaves (B and 4B) 311) ertebrates (B1 ulfide Odor (C hizospheres al f Reduced Iror Reduction in Stressed Plant ain in Remarka	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 3) (C4) Tilled Soils (C6) ts (D1) (LRR A) s) 	a; + = heavy (m sions, because <u>Secondary</u> Water-S Water-S Urainag Dry-Sea Dry-Sea Dry-Sea Saturati Saturati 3)Geomol Shallow FAC-Ne Raised Frost-H	ore clay); - = light (le it does not meet the Indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2) magery (C9) RR A))
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation Vi	S = sand; Si = sili nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Table (A2) (A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Ir getated Concave Dns: Present? Ye sent? Ye	nagery (B7) Surface (B8)	heck all that apply water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y material. Not y) ed Leaves (B1 and 4B) 311) ertebrates (B1 ulfide Odor (C hizospheres al f Reduced Iror Reduction in Stressed Plant ain in Remarka Depth (inc	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 4) 5) 4) 4) 5) 4) 4) 4) 5) 4) 4) 4) 5) 4) 4)	a; + = heavy (m sions, because <u>Secondary</u> Water-S Water-S Urainag Dry-Sea Dry-Sea Dry-Sea Saturati Saturati 3)Geomol Shallow FAC-Ne Raised Frost-H	ore clay); - = light (le it does not meet the it does not meet the <u>Indicators (2 or more</u> Stained Leaves (B9) (nd 4B) e Patterns (B10) ason Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF eave Hummocks (D7	ss clay) landform definitio <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (M
Depth (inches): emarks: S Redox" / color m IYDROLOGY /etland Hydrolo rimary Indicators 	S = sand; Si = sili nottles in 2-5" lay Y Dgy Indicators: s (minimum of or er (A1) Fable (A2) A3) G (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Ir getated Concave Dns: Present? Ye sent? Ye ent? Ye ent? Ye ent? Ye	nagery (B7) Surface (B8)	heck all that apply water-Stain 1, 2, 4A, Salt Crust (f Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain No X No X	y) ed Leaves (Bi and 4B) 311) ertebrates (B1 ulfide Odor (C hizospheres al f Reduced Iror Reduction in Stressed Plant ain in Remarka Depth (inc Depth (inc Depth (inc	 = fine; vf = very fin F8, Redox Depres 9) (except MLRA 3) 3) 3) 3) 3) 3) 3) 3) 4) 5) 4) 4) 5) 4) 4) 4) 5) 4) 4) 4) 5) 4) 4)	e; + = heavy (m sions, because 	ore clay); - = light (le it does not meet the it does not meet the it does not meet the indicators (2 or more Stained Leaves (B9) (nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial I rphic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LF eave Hummocks (D7 d Hydrology Presen	ss clay) landform definitio <u>required)</u> MLRA 1, 2, 2) magery (C9) RR A))

Project/Site: N	ledford Urban Re	eserve LWI			City/County:	Medford UR /	Jackson	Sampling Date	e: <u>4/8/201</u>	5
Applicant/Owner:	City of Medford	ł					State: OR	Sampling	Point:	P12
Investigator(s):	Clare Kenny, T	aya K. MacLean			Section, T	ownship, Rang	e: Section 5, T37S, R	IW		
Landform (hillslope	, terrace, etc.):	terrace				Local relief	(concave, convex, none):	concave	Slope (%)): <3
Subregion (LRR):	A, Northwest F	orests and Coast	İ	Lat:	42.387570	Lon	g: -122.852700	Datur	n: NAD 19	183
Soil Map Unit Nan	ne: Unit	33: Coker clay		•			NWI	classification: n	ione	
Are climatic / hydr	rologic conditions	s on the site typic	al for this tim	e of ye	ear?	Ye	s X No	(If no, ex	plain in Re	marks)
Are Vegetation	,Soil	l, o	r Hydrology		significantly	disturbed? A	re "Normal Circumsta	nces" present?	Yes X	No
Are Vegetation	,Soil		r Hydrology		naturally pro		If needed, explain any			
SUMMARY O	F FINDINGS	 Attach site 	e map sho	wing	sampling	point locat	ions, transects, i	mportant fe	atures,	etc.
Hydrophytic Vege	etation Present?	Yes	s X	No						
Hydric Soil Prese	ent?	Yes	6	No	Х	Is the Samp				
Wetland Hydrolog	gy Present?	Yes	з <u>Х</u>	No		within a We	tland? Yes	No	Х	
Precipitation prior	to fieldwork:	Dry spring evalu	uation							
Remarks:	area of swales	depressions and	subtle moun	dina C)ur observativ	ons were consis	stent with WD2007-010	16		
	area or swales,		Sublie moun	ung. C				<i>.</i>		
VEGETATION	l									
			Absolute		Dominant	Indicator	Dominance Test w	orksheet:		
Tree Stratum	(Plot size: <u>30</u>	<u>' r</u>)	% Cover		Species?	<u>Status</u>	Number of Dominar	nt Species		
1.							That Are OBL, FAC	W, or FAC:	1	(A)
2.										
3.							Total Number of Do	minant		
4.							Species Across All	Strata:	1	(B)
			0%	= Tota	al Cover			_		-
Sapling/Shrub Str	atum (Plot	t size: <u>10' r</u> _)					Percent of Dominar	t Species		
1.							That Are OBL, FAC	W, or FAC:	<u>100%</u>	(A/B)
2.				-			Prevalence Index	worksheet:		
3.				-			Total % Cover	of: Multiply b	oy:	
4.				•			OBL species	0 x 1 =	0	
5.							FACW species	67 x 2 =	134	4
			0%	= Tota	al Cover		FAC species	20 x 3 =	60)
Herb Stratum	(Plot size: <u>5</u> '	<u>r</u>)					FACU species	10 x 4 =	40	1
1. Deschampsia	a caespitosa		65%		Yes	FACW	UPL species	0 x 5 =	0	
2. Poa species	•		10%	•	No	FAC*	Column Totals:	97 (A)	234	4 (B)
3. Ranunculus r	repens		5%	•	No	FAC	Prevalence Inde	x = B/A =	2.41	
4. Allium specie	S		5%	•	No	FAC*	Hydrophytic Veget	ation Indicato	rs:	
5. Lactuca serrie	ola		5%	•	No	FACU	1 - Rapid Test f	or Hydrophytic	Vegetatior	ı
6. Medicago pol	lymorpha		5%	• •	No	FACU	X 2 - Dominance	Test is >50%		
7. Camassia qu			2%	• •	No	FACW	X 3 - Prevalence	ndex is ≤3.0 ¹		
8.				-			4 - Morphologic	al Adaptations ¹	(Provide s	supporting
9.				-			· · ·	arks or on a se		•••••
10.				-			5 - Wetland Nor	n-Vascular Plar	nts ¹	,
11.				-			Problematic Hy			plain)
			97%	= Tota	al Cover		¹ Indicators of hydric			
Woody Vine Strat	um (Plot	t size: <u>10' r</u>)	0170	- 1010			be present.		ia nyarolog	y maor
1.										
2.							Hydrophytic			
			0%	= Tota	al Cover		Vegetation	Yes X N	No	_
% Bare Ground in	Herb Stratum	3%	_				Present?			
Remarks: * = Ass	umed FAC.						Entere	d by: tkm	QC by: cm	W

Depth	Matri	X		ILEUUX	Features			
(inches)	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/1	100	_				CL	
3-14	7.5YR 2.5/1	100	_				С	
			_					
/pe: C=Concent	tration, D=Deplet	on, RM=Re	educed Matrix C	S=Covered or Coa	ted Sand Grains.	² Location:	PL=Pore Lining, M=Ma	atrix.
dric Soil Indica	ators: (Applicabl	e to all LRF	Rs, unless othe	erwise noted.)		Indicators for	or Problematic Hydri	c Soils ³ :
Histosol (A1)			Sandy Re	dox (S5)		2 cm Mu	ck (A10)	
Histic Epipedo	on (A2)		Stripped I	Matrix (S6)		Red Par	ent Material (TF2)	
Black Histic (A	A3)		Loamy M	ucky Mineral (F1) (except MLRA 1)	Very Sha	allow Dark Surface (TF	-12)
Hydrogen Sulf	fide (A4)		Loamy Gl	eyed Matrix (F2)		Other (E	xplain in Remarks)	
Depleted Belo	w Dark Surface (A11)	Depleted	Matrix (F3)				
Thick Dark Su	Irface (A12)		Redox Da	rk Surface (F6)		³ Indicators o	f hydrophytic vegetatio	on and
Sandy Mucky	Mineral (S1)		Depleted	Dark Surface (F7)		wetland hy	drology must be prese	ent,
Sandy Gleyed	Matrix (S4)		Redox De	pressions (F8)		unless dist	urbed or problematic.	
	= sand; Si = silt;	C = clay; L	= loam or loam	/; co = coarse; f = f		ydric Soil Pres + = heavy (mo	sent? Yes ore clay); - = light (less	No X
marks: S YDROLOGY etland Hydrolog mary Indicators _Surface Water	gy Indicators: (minimum of one r (A1)		heck all that ap		ine; vf = very fine;	+ = heavy (mo		clay)
emarks: S YDROLOGY etland Hydrolog imary Indicators	gy Indicators: (minimum of one r (A1) able (A2)		heck all that ap	ply) ained Leaves (B9) (A, and 4B)	ine; vf = very fine;	+ = heavy (mo	ore clay); - = light (less ndicators (2 or more re tained Leaves (B9) (M	clay)
emarks: S YDROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta	gy Indicators: (minimum of one r (A1) able (A2) 3)		theck all that ap Water-Sta 1, 2, 4/	ply) ained Leaves (B9) (A, and 4B)	ine; vf = very fine;	+ = heavy (mo <u>Secondary Ir</u> <u>Water-S</u> 4A, ar Drainage	ore clay); - = light (less ndicators (2 or more re tained Leaves (B9) (M nd 4B)	clay)
emarks: S YDROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3	gy Indicators: (minimum of one r (A1) able (A2) 3) (B1)		heck all that ap Water-Sta 1, 2, 4/ Salt Crust	<u>ply)</u> ained Leaves (B9) (A, and 4B) : (B11)	ine; vf = very fine;	+ = heavy (mo	ndicators (2 or more re tained Leaves (B9) (M ad 4B) e Patterns (B10)	equired) LRA 1, 2,
emarks: S YDROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) posits (B2)		theck all that ap Water-Sta 1, 2, 4/ Salt Crust Aquatic Ir Hydrogen	ply) ained Leaves (B9) (A, and 4B) : (B11) avertebrates (B13)	ine; vf = very fine;	+ = heavy (mo	ore clay); - = light (less ndicators (2 or more re tained Leaves (B9) (M nd 4B) e Patterns (B10) son Water Table (C2)	equired) LRA 1, 2,
emarks: S YDROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) posits (B2) (B3)		theck all that ap Water-Sta 1, 2, 4 Salt Cruss Aquatic Ir Hydrogen Oxidized	<u>ply)</u> ained Leaves (B9) (A, and 4B) : (B11) ivertebrates (B13) Sulfide Odor (C1)	ine; vf = very fine; (except MLRA	+ = heavy (mo <u>Secondary Ir</u> 	ndicators (2 or more re tained Leaves (B9) (M ad 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial Im	equired) LRA 1, 2,
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WETLAND DETERMI	NATION DATA	FORM – West	tern Mounta	ains, Valleys and Coast Region
Project/Site: Medford Urban Reserve LWI		City/County:	Medford UR /	/ Jackson Sampling Date: 4/9/2015
Applicant/Owner: City of Medford				State: OR Sampling Point: P13
Investigator(s): Clare Kenny, Taya K. Mac	Lean	Section, T	ownship, Rang	e: Section 26, T37S, R1W
Landform (hillslope, terrace, etc.): ravine			Local relief	(concave, convex, none): concave Slope (%): <3
Subregion (LRR): A, Northwest Forests and	Coast	Lat: 42.325370	 Lon	g: -122.782700 Datum: NAD 1983
Soil Map Unit Name: Unit 27: Carney	clay		_	NWI classification: none
Are climatic / hydrologic conditions on the site	typical for this tim	e of year?	Ye	s X No (If no, explain in Remarks)
Are Vegetation,Soil	, or Hydrology	significantly	disturbed? A	Are "Normal Circumstances" present? Yes X No
	, or Hydrology			If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach	site map sho	wing sampling	point locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes X	No		
Hydric Soil Present?	Yes X	No	Is the Samp	led Area
Wetland Hydrology Present?	Yes X	No	within a We	tland? Yes X No
Precipitation prior to fieldwork: Dry spring Remarks: PSS wetland W14. Medford City parcel - lease VEGETATION	evaluation ed for ranching cat	tle.	•	
	Abaaluta	Dominant	Indiantor	Dominance Test worksheet:
Tree Stratum (Plot size: 30' r_)	Absolute % Cover	Dominant	Indicator	
1.	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: <u>3</u> (A)
3.				
4.				Total Number of Dominant
······				Species Across All Strata: <u>3</u> (B)
Capling/Chruck Strature (Distained A)		= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>10</u>	<u>r)</u>			Percent of Dominant Species
1. <u>Salix species</u>	50%	Yes	FAC*	That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2.				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species $5 \times 2 = 10$
	50%	= Total Cover		FAC species 100 x 3 = 300
Herb Stratum (Plot size: <u>5' r</u>)				FACU species 0 x 4 = 0
1. Dipsacus fullonum	25%	Yes	FAC	UPL species $0 \times 5 = 0$
2. Agrostis stolonifera	25%	Yes	FAC	Column Totals: <u>105</u> (A) <u>310</u> (B)
3. Juncus effusus	5%	No	FACW	Prevalence Index = $B/A = 2.95$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				X 3 - Prevalence Index is $\leq 3.0^{1}$
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				5 - Wetland Non-Vascular Plants ¹
11.				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:10'		= Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present.
1				Undrandutia
2		Tatal Ora		Hydrophytic Vegetation Yes Y No
		= Total Cover		Vegetation Yes X No
% Bare Ground in Herb Stratum 45%)			Present?
Remarks: * = Assumed FAC.				Entered by: tkm QC by: cmw

Grazed and impacted by cattle hooves.

(inches) Color (mo 0-16 10YR 3	oist) %		Redox Fea				
0-16 10YR 3	JIST) 70	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	/1 80	7.5YR 5/8	20	С	М	С	
							· · · · · · · · · · · · · · · · · · ·
Type: C=Concentration, D=	Depletion, RM=	Reduced Matrix CS=Cove	ered or Coated S	Sand Grains.	² Location:	PL=Pore Lining, M=M	Matrix.
ydric Soil Indicators: (Ap						or Problematic Hydi	
Histosol (A1)		Sandy Redox (S5			2 cm Mu	-	
Histic Epipedon (A2)		Stripped Matrix (S				ent Material (TF2)	
Black Histic (A3)		Loamy Mucky Mir		ont MI RA 1)		allow Dark Surface (T	F12)
		Loamy Gleyed Ma					1 12)
Hydrogen Sulfide (A4)	rfo.co. (A.1.1)		. ,			xplain in Remarks)	
Depleted Below Dark Su		Depleted Matrix (I			³ Indicators o	f hydrophytic vegetat	ion and
Thick Dark Surface (A12	,	X Redox Dark Surfa					
Sandy Mucky Mineral (S		Depleted Dark Su			-	drology must be pres	
	1)	Redox Depression	ns (⊦8)		unless dist	urbed or problematic	
Type: Depth (inches):	t):	L = loam or loamy; co = c	coarse; f = fine;		ydric Soil Pre + = heavy (mo		No ss clay)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S	t): = silt; C = clay;		coarse; f = fine;				
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat	t): = silt; C = clay; ors:	L = loam or loamy; co = c	coarse; f = fine;		+ = heavy (mo	ore clay); - = light (les	unitary in the second s
Sestrictive Layer (if preser Type: Depth (inches): Semarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate	t): = silt; C = clay; ors:	L = loam or loamy; co = c		vf = very fine;	+ = heavy (mo	ore clay); - = light (les	required)
estrictive Layer (if preser Type: Depth (inches): temarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate trimary Indicators (minimum Surface Water (A1)	t): = silt; C = clay; ors:	L = loam or loamy; co = c		vf = very fine;	+ = heavy (mo	ore clay); - = light (les	required)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Irimary Indicators (minimum Surface Water (A1) X High Water Table (A2)	t): = silt; C = clay; ors:	L = loam or loamy; co = c	eaves (B9) (exc e	vf = very fine;	+ = heavy (mo	ore clay); - = light (les	required)
Image: Sector Control Contron Control Control Control Control Control C	t): = silt; C = clay; ors:	L = loam or loamy; co = c ; check all that apply) Water-Stained Le	eaves (B9) (exc e	vf = very fine;	+ = heavy (mo	ndicators (2 or more I tained Leaves (B9) (I	required)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Irimary Indicators (minimum Surface Water (A1) X High Water Table (A2)	t): = silt; C = clay; ors:	L = loam or loamy; co = c ; check all that apply) Water-Stained Le 1, 2, 4A, and 4	eaves (B9) (exce B)	vf = very fine;	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar	ndicators (2 or more r tained Leaves (B9) (I nd 4B)	required) MLRA 1, 2,
Antipeter Sector Type: Depth (inches): Temarks: S = sand; S Semarks: S = sand; S Attribute S = s	t): = silt; C = clay; ors:	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	eaves (B9) (exce B) ates (B13)	vf = very fine;	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (I nd 4B) e Patterns (B10)	required) MLRA 1, 2,
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	t): = silt; C = clay; ors:	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	aves (B9) (exce B) ates (B13) Odor (C1)	vf = very fine; ept MLRA	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (f nd 4B) e Patterns (B10) son Water Table (C2	required) MLRA 1, 2,
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat trimary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	t): = silt; C = clay; ors:	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv	vf = very fine; ept MLRA	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (1 nd 4B) P Patterns (B10) son Water Table (C2)	required) MLRA 1, 2,
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	t): = silt; C = clay; ors:	L = loam or loamy; co = c <u>check all that apply</u> Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4)	vf = very fine; ept MLRA	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (f nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2)	required) MLRA 1, 2,
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	t): = silt; C = clay; ors: of one required	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	aves (B9) (exce B) Odor (C1) heres along Liv uced Iron (C4) uction in Tilled S	vf = very fine; ept MLRA ing Roots (C3 coils (C6)	+ = heavy (mo	ndicators (2 or more r tained Leaves (B9) (f nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial In phic Position (D2) Aquitard (D3)	required) MLRA 1, 2,) nagery (C9)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	t): = silt; C = clay; ors: of one required	L = loam or loamy; co = c <u>c check all that apply</u> Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) uction in Tilled S ed Plants (D1)	vf = very fine; ept MLRA ing Roots (C3 coils (C6)	+ = heavy (mo <u>Secondary II</u> <u>Water-S</u> <u>4A, ar</u> Drainage Dry-Sea: <u>Saturatio</u> Saturatio Shallow <u>FAC-Nei</u> <u>Raised A</u>	ndicators (2 or more r tained Leaves (B9) (1 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5)	required) MLRA 1, 2,) nagery (C9) R A)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	t): = silt; C = clay; ors: of one required	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress) Other (Explain in	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) action in Tilled S ed Plants (D1)	vf = very fine; ept MLRA ing Roots (C3 coils (C6)	+ = heavy (mo <u>Secondary II</u> <u>Water-S</u> <u>4A, ar</u> Drainage Dry-Sea: <u>Saturatio</u> Saturatio Shallow <u>FAC-Nei</u> <u>Raised A</u>	pre clay); - = light (les <u>indicators (2 or more in</u> tained Leaves (B9) (1 ind 4B) e Patterns (B10) son Water Table (C2) pon Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor	t): = silt; C = clay; ors: of one required	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress) Other (Explain in	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) action in Tilled S ed Plants (D1)	vf = very fine; ept MLRA ing Roots (C3 coils (C6)	+ = heavy (mo <u>Secondary II</u> <u>Water-S</u> <u>4A, ar</u> Drainage Dry-Sea: <u>Saturatio</u> Saturatio Shallow <u>FAC-Nei</u> <u>Raised A</u>	pre clay); - = light (les <u>indicators (2 or more in</u> tained Leaves (B9) (1 ind 4B) e Patterns (B10) son Water Table (C2) pon Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat trimary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor ield Observations:	t): = silt; C = clay; ors: of one required of one required in a limagery (B7 incave Surface (B	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress) Other (Explain in 8)	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) uction in Tilled S ed Plants (D1) Remarks)	vf = very fine; ept MLRA ing Roots (C3 coils (C6)	+ = heavy (mo <u>Secondary II</u> <u>Water-S</u> <u>4A, ar</u> Drainage Dry-Sea: <u>Saturatio</u> Saturatio Shallow <u>FAC-Nei</u> <u>Raised A</u>	pre clay); - = light (les <u>indicators (2 or more in</u> tained Leaves (B9) (1 ind 4B) e Patterns (B10) son Water Table (C2) pon Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present?	t): = silt; C = clay; ors: of one required of one required of one required for one required of one required Yes	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress) Other (Explain in 8)	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) action in Tilled S ed Plants (D1) Remarks) epth (inches):	vf = very fine; ept MLRA ing Roots (C3 ioils (C6) (LRR A)	+ = heavy (mo	pre clay); - = light (les <u>indicators (2 or more i</u> tained Leaves (B9) (I ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7)	required) MLRA 1, 2,) magery (C9) R A)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present?	t): = silt; C = clay; ors: of one required of one required vial Imagery (B7 icave Surface (B Yes Yes Xes X	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress) Other (Explain in 8) No X De No De	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) uction in Tilled S ed Plants (D1) Remarks) epth (inches):	vf = very fine; ept MLRA ing Roots (C3 coils (C6) (LRR A) 9	+ = heavy (mo	pre clay); - = light (les <u>indicators (2 or more in</u> tained Leaves (B9) (I ind 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7) I Hydrology Present	required) MLRA 1, 2,) nagery (C9) R A)
Restrictive Layer (if preser Type: Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae	t): = silt; C = clay; ors: of one required of one required of one required for one required of one required Yes	L = loam or loamy; co = c check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress) Other (Explain in 8) No X De No De	eaves (B9) (exce B) ates (B13) Odor (C1) heres along Liv uced Iron (C4) action in Tilled S ed Plants (D1) Remarks) epth (inches):	vf = very fine; ept MLRA ing Roots (C3 ioils (C6) (LRR A)	+ = heavy (mo	pre clay); - = light (les <u>indicators (2 or more i</u> tained Leaves (B9) (I ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7)	required) MLRA 1, 2,) nagery (C9) R A)

Project/Site: Medford Urban Reserv	e LWI	City/County:	Medford UR /	Jackson	Sampling Date	e: 4/20/2015	
Applicant/Owner: City of Medford				State: OR	Sampling		P14
Investigator(s): Clare Kenny, Taya k	K. MacLean	Section, T	ownship, Rang	e: Section 33, T37S,	-		
Landform (hillslope, terrace, etc.): terrace	ace drainage			(concave, convex, none):		Slope (%):	<3
Subregion (LRR): A, Northwest Forest	s and Coast	Lat: 42.302050	Lon	g: -122.825500	Datun	n: NAD 1983	}
Soil Map Unit Name: Unit 43: [Darow silty clay loam			NWI	classification: n	ione	
Are climatic / hydrologic conditions on t	he site typical for this time	of year?	Ye	s X No	(If no, ex	plain in Rema	arks)
Are Vegetation,Soil	, or Hydrology	significantly o		Are "Normal Circumsta			۸o
Are Vegetation,Soil	, or Hydrology	naturally prot		If needed, explain any			
SUMMARY OF FINDINGS – A		- · · ·	point locat	ions, transects,	important te	atures, et	с.
Hydrophytic Vegetation Present?	Yes X	No	la tha Sama				
Hydric Soil Present?	Yes X	No	Is the Samp	11	·•		
Wetland Hydrology Present?	Yes X	No	within a We	tland? Yes	<u>X</u> No	<u> </u>	
Remarks: PEM wetland W17 - long linear feature	spring evaluation in golf course, east of pav	ed path. This welta	and was partial	ly captured in WD2004	4-0551.		
VEGETATION				I			1
Tree Stratum (Plot size: 30' r)	Absolute	Dominant	Indicator	Dominance Test v			
,	<u>,,,,,,,</u>	Species?	Status	Number of Domina		- ,	
 <u>Populus balsamifera</u> 2. 	15%	Yes	FAC	That Are OBL, FAC	W, or FAC:	3((A)
3.							
4.				Total Number of Do		a	
ч. 				Species Across All	Strata:	3 ((B)
Sapling/Shrub Stratum (Plot size	:10' r)	= Total Cover		Descent of Domino	-1 Onenion		
				Percent of Dominal		1000/	
 Salix scouleriana 2. 	20%	Yes	FAC	That Are OBL, FAC		<u>100%</u> ((A/B)
3.				Prevalence Index Total % Cove		×	
							-
4.				OBL species	$15 \times 1 =$	15	
5				FACW species	$60 \times 2 =$	120	
Herb Stratum (Plot size: <u>5' r</u>)	=	= Total Cover		FAC species	$40 \times 3 =$	120	
				FACU species	$0 \times 4 =$	0	
1. Carex praegracilis	60%	Yes	FACW	UPL species	$0 \times 5 =$	0	(D)
2. Eleocharis acicularis	15%	No	OBL		<u>115</u> (A)	255	(B)
3. Alopecurus pratensis	5%	No	FAC	Prevalence Inde		<u>2.22</u>	
4.				Hydrophytic Vege			
5.					for Hydrophytic	Vegetation	
6.				X 2 - Dominance			
7.				X 3 - Prevalence			
8.				·	cal Adaptations ¹	· ·	
9.					harks or on a ser		1
10.					on-Vascular Plan		-
11				· · · ·	/drophytic Veget		
Woody Vine Stratum (Plot size	.: <u>10' r</u>)=	= Total Cover		¹ Indicators of hydric be present.	c soil and wetlar	ıd hydrology	must
2.				Hydrophytic			
	0% =	= Total Cover		Vegetation	Yes X N	lo	
% Bare Ground in Herb Stratum	20%			Present?			
Remarks:				Enter	ed by: tkm (QC by: cmw	

Depth	Matrix	`		Redox Fe	alures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-0.5	10YR 3/2	100					muck	
0.5-5.5	2.5Y 4/2	95	10YR 4/4	5	С	М	CL	Gravels, roots
Type: C=Concent	ration, D=Depleti	on, RM=Re	educed Matrix CS=Cove	ered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=	Matrix.
lydric Soil Indicat	tors: (Applicable	e to all LR	Rs, unless otherwise r	noted.)		Indicators for	or Problematic Hyd	lric Soils ³ :
Histosol (A1)			Sandy Redox (S5	5)		2 cm Mu	ck (A10)	
Histic Epipedor	n (A2)		Stripped Matrix (S	6)		Red Pare	ent Material (TF2)	
Black Histic (A	3)		Loamy Mucky Mir	neral (F1) (exc	ept MLRA 1)	Very Sha	allow Dark Surface (TF12)
Hydrogen Sulfi	ide (A4)		Loamy Gleyed Ma	atrix (F2)		Other (E	xplain in Remarks)	
X Depleted Below	w Dark Surface (A	A11)	Depleted Matrix (F3)				
Thick Dark Sur	rface (A12)		Redox Dark Surfa	ace (F6)		³ Indicators o	f hydrophytic vegeta	tion and
Sandy Mucky M	Mineral (S1)		Depleted Dark Su	urface (F7)		wetland hy	drology must be pre	sent,
Sandy Gleyed	Matrix (S4)		Redox Depression	ns (F8)		unless dist	urbed or problemati	с.
Restrictive Layer ((if present):							
Type:								
JT -								
Depth (inches): Remarks: S = Gravel fill at 5.5" ca	aused shovel refu	sal and pre	= loam or loamy; co = c evented us from being a f fertilizer and organic n	ble to confirm	; vf = very fine; the 6" thicknes	s requirement	ore clay); - = light (le for A11. Gravels like	
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog	aused shovel refu Juck may be from y Indicators:	sal and pre build-up o	evented us from being a f fertilizer and organic n	ble to confirm	; vf = very fine; the 6" thicknes	+ = heavy (mo s requirement	ore clay); - = light (le for A11. Gravels like	ss clay)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog	aused shovel refu Juck may be from y Indicators:	sal and pre build-up o	evented us from being a	ble to confirm	; vf = very fine; the 6" thicknes	+ = heavy (mo s requirement BPJ was used	ore clay); - = light (le for A11. Gravels like	ss clay) from construct
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog	aused shovel refu luck may be from y Indicators: (minimum of one	sal and pre build-up o	evented us from being a f fertilizer and organic n	ble to confirm naterial under	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used _ <u>Secondary Ir</u>	ore clay); - = light (le for A11. Gravels like I to check A11.	ss clay) ely from construct required)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog	aused shovel refu luck may be from y Indicators: (minimum of one (A1)	sal and pre build-up o	evented us from being a f fertilizer and organic n heck all that apply)	able to confirm naterial under	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used _ <u>Secondary Ir</u> Water-S	ore clay); - = light (le for A11. Gravels like d to check A11. ndicators (2 or more	ss clay) ely from construct required)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water	aused shovel refu Muck may be from y Indicators: (minimum of one (A1) ble (A2)	sal and pre build-up o	evented us from being a f fertilizer and organic n sheck all that apply) Water-Stained Le	able to confirm naterial under	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used <u>Secondary Ir</u> Water-S 4A, ar	ore clay); - = light (le for A11. Gravels like I to check A11. Indicators (2 or more tained Leaves (B9)	ss clay) ely from construct required)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water X High Water Tal	aused shovel refu Muck may be from IN Indicators: (minimum of one (A1) ble (A2))	sal and pre build-up o	evented us from being a f fertilizer and organic n sheck all that apply) Water-Stained Le 1, 2, 4A, and 4	able to confirm naterial under eaves (B9) (ex o B)	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used _ <u>Secondary Ir</u> Water-S Vater-S Drainage	ore clay); - = light (le for A11. Gravels like d to check A11. ndicators (2 or more tained Leaves (B9) (nd 4B)	ss clay) ely from construct required) (MLRA 1, 2,
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water X High Water Tal X Saturation (A3)	aused shovel refu Auck may be from y Indicators: (minimum of one (A1) ble (A2)) B1)	sal and pre build-up o	evented us from being a f fertilizer and organic n check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	able to confirm naterial under eaves (B9) (ex a B) ates (B13)	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used 	ore clay); - = light (le for A11. Gravels like a to check A11. adicators (2 or more tained Leaves (B9) (ad 4B) e Patterns (B10)	ss clay) ely from construct required) MLRA 1, 2, 2)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water X High Water Tal X Saturation (A3) Water Marks (E	aused shovel refu Auck may be from y Indicators: (minimum of one (A1) ble (A2)) B1) osits (B2)	sal and pre build-up o	evented us from being a f fertilizer and organic n check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	able to confirm naterial under eaves (B9) (ex B) ates (B13) Odor (C1)	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used <u>Secondary Ir</u> Water-S Vater-S Drainage Dry-Seas Saturatio	ore clay); - = light (le for A11. Gravels like to check A11. adicators (2 or more tained Leaves (B9) (ad 4B) e Patterns (B10) son Water Table (C2	ss clay) ely from construct required) MLRA 1, 2, 2)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Vetland Hydrolog Primary Indicators (Surface Water X High Water Tal X Saturation (A3) Water Marks (B Sediment Depo	aused shovel refu Auck may be from IN Indicators: (minimum of one (A1) ble (A2)) B1) osits (B2) (B3)	sal and pre build-up o	evented us from being a of fertilizer and organic m check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	able to confirm naterial under eaves (B9) (exc B) ates (B13) Odor (C1) heres along Li	; vf = very fine; the 6" thicknes wet conditions.	+ = heavy (mo s requirement BPJ was used 	ore clay); - = light (le for A11. Gravels like d to check A11. <u>indicators (2 or more</u> tained Leaves (B9) (ind 4B) P Patterns (B10) son Water Table (C2 on Visible on Aerial I	ss clay) ely from construct required) MLRA 1, 2, 2)
Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water X High Water Tal X Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (aused shovel refu Auck may be from Iy Indicators: (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4)	sal and pre build-up o	evented us from being a f fertilizer and organic n check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	able to confirm naterial under eaves (B9) (ex B) ates (B13) Odor (C1) oheres along Li uced Iron (C4)	; vf = very fine; the 6" thicknes wet conditions. cept MLRA	+ = heavy (mo s requirement BPJ was used 	ore clay); - = light (le for A11. Gravels like d to check A11. adicators (2 or more tained Leaves (B9) (ad 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2)	ss clay) ely from construct required) MLRA 1, 2, 2)
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Depth (inches): Remarks: S = Gravel fill at 5.5" ca rrigation system. M HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water X High Water Tal X Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (X Algal Mat or Cr Iron Deposits (Surface Soil Cr Inundation Visi Sparsely Veger Field Observations Surface Water Present Saturation Present (includes capillary	aused shovel refu Auck may be from IN Indicators: (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) B5) racks (B6) ible on Aerial Ima tated Concave S s: esent? Yes ent? Yes fringe)	sal and pre build-up o required; c gery (B7) urface (B8) X X	evented us from being a f fertilizer and organic n check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in No X De No De	able to confirm naterial under eaves (B9) (exe B) ates (B13) Odor (C1) able (B13) Odor (C1) able (B13) Odor (C1) able (B13) ates (B13) Odor (C1) able (B13) ates (B13) Odor (C1) able (B13) ates (B13) Odor (C1) able (B13) able (B13) ates (B13) Odor (C1) able (B13) ates (B13) Odor (C1) able (B13) ates (B13) (ble (B13) ates (B13) (ble (B13) ates (B13) (ble (B13) ates (B13) (ble (B13)) (ble (B13) (ble (B13)) (ble	; vf = very fine; the 6" thicknes wet conditions. cept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo s requirement BPJ was used Water-S 4A, ar Drainage Dry-Seas Saturatic Geomorp Shallow FAC-Net Raised A Frost-He	pre clay); - = light (le for A11. Gravels like d to check A11. adicators (2 or more tained Leaves (B9) (ad 4B) Patterns (B10) son Water Table (C2 on Visible on Aerial I phic Position (D2) Aquitard (D3) utral Test (D5) utral Test (D5) ave Hummocks (D7	ss clay) ely from construct <u>required)</u> MLRA 1, 2, 2) magery (C9) RR A)) t?
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Project/Site: M	ledford Urban Reserve LWI		City/County:	Medford UR /	/ Jackson	Sampling Dat	e: 4/20/201	5
Applicant/Owner:	City of Medford				State: OR	Sampling) Point:	P15
Investigator(s):	Clare Kenny, Taya K. MacLe	ean	Section, T	ownship, Rang	e: Section 33, T37S, F	۲1W		
Landform (hillslope,	, terrace, etc.): terrace			Local relief	(concave, convex, none):	concave	Slope (%):	<3
Subregion (LRR):	A, Northwest Forests and C	oast	Lat: 42.304000	Lon	ıg: <u>-122.827100</u>	Datur	m: NAD 198	3
Soil Map Unit Nam	ne: Unit 33: Coker cla	ау			NWI	classification: r	ione	
Are climatic / hydro	ologic conditions on the site t	ypical for this tim	e of year?	Ye			plain in Ren	
Are Vegetation	,Soil	, or Hydrology	significantly of		Are "Normal Circumstar	•		No
Are Vegetation	,Soil	, or Hydrology	naturally prot	,	If needed, explain any			
	F FINDINGS – Attach			point locat	ions, transects, i	mportant fe	atures, e	tc.
Hydrophytic Vege		Yes	No X	la tha Sama	and Area			
Hydric Soil Preser		Yes X	No	Is the Samp	11		X	
Wetland Hydrolog		Yes	No X	within a We	tland? Yes	No	<u>X</u>	
Precipitation prior	to fieldwork: Dry spring e	evaluation						
Remarks: WD2004-0551 wet	tland polygons are located no	orth and southwes	st of sample plot. It	is likely that go	If course management	has altered the	e hydrology	in the 11
years since.		-	• •		<u> </u>			
VEGETATION								
		Absolute	Dominant	Indicator	Dominance Test w	orksheet:		
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	Status	Number of Dominar	nt Species		
1.					That Are OBL, FAC	W, or FAC:	0	(A)
2.								
3.					Total Number of Do	minant		
4.					Species Across All	Strata:	2	(B)
—		0%	= Total Cover					
Sapling/Shrub Stra	atum (Plot size: <u>10' r</u>)			Percent of Dominan	nt Species		
1.					That Are OBL, FAC	W, or FAC:	<u>0%</u>	(A/B)
2.					Prevalence Index v		_	_
3.					Total % Cover	of: Multiply t	oy:	
4.					OBL species	0 x 1 =	0	
5.					FACW species	0 x 2 =	0	
		0%	= Total Cover		FAC species	15 x 3 =	45	
<u>Herb Stratum</u>	(Plot size: <u>5' r</u>)				FACU species	15 x 4 =	60	
1. Geranium mol	lle	30%	Yes	NOL	UPL species	70 x 5 =	350	
2. Vulpia microst	tachys	30%	Yes	NOL	Column Totals: 1	100 (A)	455	(B)
3. Lupinus bicolo	or	10%	No	NOL	Prevalence Inde	x = B/A =	4.55	
4. Medicago poly	ymorpha	10%	No	FACU	Hydrophytic Veget	ation Indicato	rs:	
5. Alopecurus pr	ratensis	10%	No	FAC	1 - Rapid Test f	or Hydrophytic	Vegetation	
6. Vicia americal	na	5%	No	FAC	2 - Dominance	Test is >50%		
7. Poa bulbosa		5%	No	FACU	3 - Prevalence I	Index is ≤3.0 ¹		
8.					4 - Morphologic	al Adaptations ¹	(Provide su	upporting
9.					data in Rem	arks or on a se	parate shee	t)
10.					5 - Wetland Nor	n-Vascular Plar	nts ¹	
11.					Problematic Hy	drophytic Vege	tation ¹ (Exp	lain)
		100%	= Total Cover		¹ Indicators of hydric			
Woody Vine Stratu	um (Plot size: <u>10' r</u>				be present.			
1								
2					Hydrophytic			
		0%	= Total Cover		Vegetation	YesN	No <u>X</u>	•
% Bare Ground in	Herb Stratum 0%				Present?			
Remarks: Relict A. pratensis	s hummocks.				Entere	ed by: tkm	QC by: cmv	<u> </u>

Depth	Matrix		Redox Fea	atures			
(inches) Color (m	oist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-12 10YR 3	8/2 95	10YR 4/6	5	С	М	CL	
			·				
			·				
			<u> </u>				
ype: C=Concentration, D=	-Depletion, RM=I	Reduced Matrix CS=Cov	ered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=N	latrix
/dric Soil Indicators: (Ap				Ound Grane.		or Problematic Hyd	
Histosol (A1)		Sandy Redox (St	•		2 cm Mu	-	
Histic Epipedon (A2)		Stripped Matrix (ent Material (TF2)	
,		Loamy Mucky Mi	,	+ MI DA 1)			
Black Histic (A3)						allow Dark Surface (1	F12)
Hydrogen Sulfide (A4)		Loamy Gleyed M			Other (∟	xplain in Remarks)	
Depleted Below Dark S		Depleted Matrix	()		31 - Hantoro o		· · · · · · ·
Thick Dark Surface (A1	,	X Redox Dark Surf	. ,			f hydrophytic vegetat	
Sandy Mucky Mineral (S		Depleted Dark S				drology must be pres	
Sandy Gleyed Matrix (S	4)	Redox Depression	ons (F8)		unless dist	turbed or problematic	
Type: Depth (inches): emarks: S = sand; S ecently drained as a result	i = silt; C = clay;	L = loam or loamy; co = anagement. Redox may		vf = very fine;	• •	ore clay); - = light (les	• ·
Type: Depth (inches): emarks: S = sand; S ecently drained as a result IYDROLOGY /etland Hydrology Indicat	i = silt; C = clay; of golf course m tors:	anagement. Redox may		vf = very fine;	+ = heavy (mo	ore clay); - = light (les	s clay)
Type: Depth (inches): emarks: S = sand; S ecently drained as a result YDROLOGY Vetland Hydrology Indicat	i = silt; C = clay; of golf course m tors:	anagement. Redox may		vf = very fine;	+ = heavy (mo se constructio	ore clay); - = light (les	as distinct bound
Type: Depth (inches): emarks: S = sand; S ecently drained as a result YDROLOGY Vetland Hydrology Indicat	i = silt; C = clay; of golf course m tors:	anagement. Redox may	be relict from pr	vf = very fine; rior to golf cour	+ = heavy (mo se constructio - <u>Secondary I</u>	ore clay); - = light (les n/drainage. Redox ha	required)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region City/County: Medford UR / Jackson Sampling Date: 4/21/2015 Medford Urban Reserve LWI Project/Site: Applicant/Owner: City of Medford Sampling Point: State: OR P16 Clare Kenny, Taya K. MacLean Section, Township, Range: Section 6, T38S, R1W Investigator(s): Local relief (concave, convex, none): none Landform (hillslope, terrace, etc.): terrace Slope (%): <3 Subregion (LRR): A, Northwest Forests and Coast Lat: 42.299270 Long: -122.870600 Datum: NAD 1983 Soil Map Unit Name: Unit 33: Coker clay NWI classification: none No Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks) Х , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation ,Soil Are Vegetation ,Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Х Yes Is the Sampled Area Hydric Soil Present? Х Yes No within a Wetland? Х Wetland Hydrology Present? No Х Yes Yes Precipitation prior to fieldwork: Dry spring evaluation Remarks: South of pond that has had some seepage. Pond water level low and owner mentioned that pond is no longer in use and will be plugged since the orchard was removed. VEGETATION Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: <u>30' r</u>) % Cover Species? Status Number of Dominant Species 1. That Are OBL, FACW, or FAC: 0 (A) 2. 3. Total Number of Dominant 4. Species Across All Strata: 1 (B) 0% = Total Cover Sapling/Shrub Stratum (Plot size:__10' r___ Percent of Dominant Species 1. That Are OBL, FACW, or FAC: 0% (A/B) 2. Prevalence Index worksheet: 3. Total % Cover of: Multiply by: 4. OBL species 5 x 1 = 5 5. FACW species x 2 = 0 0 FAC species x 3 = 0% = Total Cover 2 6 Herb Stratum (Plot size: 5' r) FACU species 13 52 x 4 = 1. UPL species 30 x 5 = Geranium molle 30% Yes NOL 150 2. (B) Column Totals: FACU 50 (A) 213 Lactuca serriola 10% No 3. Prevalence Index = B/A = 4.26 Typha latifolia 5% No OBL 4. Cardamine hirsuta 3% FACU Hydrophytic Vegetation Indicators: No 5. 1 - Rapid Test for Hydrophytic Vegetation Dipsacus fullonum 2% No FAC 6. 2 - Dominance Test is >50% 7. 3 - Prevalence Index is ≤3.0¹ 8. 4 - Morphological Adaptations¹ (Provide supporting 9. data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants¹ 11. Problematic Hydrophytic Vegetation¹ (Explain) 50% Indicators of hydric soil and wetland hydrology must = Total Cover (Plot size: <u>10' r</u>) be present. Woody Vine Stratum 1. 2.

% Bare Ground in Herb Stratum	50%	0%	= Total Cover	Hydrophytic Vegetation Present?	Yes	No	<u>x</u>	
Remarks:		_		Ente	red by: tkm	QC I	oy: cmw	_
T latifalia wat analying bash in this as		منام اممندم	to look of hundrala and fuana manad					

T. latifolia not growing back in this season and is stunted due to lack of hydrology from pond.

		(Redox Fe	atures			
(inches) Color	r (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-12 7.5	YR 3/1	80	5YR 4/6	20	С	M, PL	CL	
				- <u> </u>				
				<u> </u>				
				·				
pe: C=Concentratior		on RM-Red	uced Matrix CS-C	overed or Coated	Sand Grains	² Location:	PL=Pore Lining, M=M	Aatrix
dric Soil Indicators:					Gana Grains.		or Problematic Hydr	2
	(Applicable			,			-	10 30113 .
Histosol (A1)	N	-	Sandy Redox (. ,		2 cm Mu	. ,	
Histic Epipedon (A2)	-	Stripped Matrix	()			ent Material (TF2)	E (0)
Black Histic (A3)		-		Mineral (F1) (exc	ept MLRA 1)		allow Dark Surface (T	F12)
_Hydrogen Sulfide (A		-	Loamy Gleyed			Other (E	xplain in Remarks)	
Depleted Below Dar		-	Depleted Matri			3		
Thick Dark Surface	(A12)	-	X Redox Dark Su	urface (F6)		Indicators o	f hydrophytic vegetat	ion and
Sandy Mucky Miner	al (S1)	-	Depleted Dark	Surface (F7)		2	drology must be pres	-
Sandy Gleyed Matri	x (S4)	-	Redox Depres	sions (F8)		unless dist	urbed or problematic	
emarks: S = san ydric soil are likely relic			•		; vf = very fine;	dric Soil Pres + = heavy (mo	sent? Yes X pre clay); - = light (les	No s clay)
Depth (inches): emarks: S = san ydric soil are likely relic	ct of previous		•		; vf = very fine;			
Depth (inches): emarks: S = san /dric soil are likely relic YDROLOGY etland Hydrology Ind	t of previous	s hydrologica	al regime when por		; vf = very fine;	+ = heavy (mo		s clay)
Depth (inches): emarks: S = san /dric soil are likely relic YDROLOGY etland Hydrology Ind	t of previous	s hydrologica	al regime when por		; vf = very fine; · n active use.	+ = heavy (mo	ore clay); - = light (les	s clay) required)
Depth (inches): emarks: S = san /dric soil are likely relic YDROLOGY etland Hydrology Ind imary Indicators (minin	t of previous	s hydrologica	al regime when por	nd was filled and in	; vf = very fine; · n active use.	+ = heavy (mo - <u>Secondary Ir</u> Water-S	ore clay); - = light (les	s clay) required)
Depth (inches): marks: S = san /dric soil are likely relic YDROLOGY etland Hydrology Ind imary Indicators (minin Surface Water (A1) High Water Table (A	t of previous	s hydrologica	eck all that apply) Water-Stained 1, 2, 4A, and	nd was filled and in Leaves (B9) (exc d 4B)	; vf = very fine; · n active use.	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar	ndicators (2 or more r tained Leaves (B9) (N nd 4B)	s clay) required)
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Depth (inches): emarks: S = san vdric soil are likely relic YDROLOGY etland Hydrology Ind imary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	t of previous	s hydrologica	al regime when por eck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Inverte	nd was filled and in Leaves (B9) (exc d 4B) 1) ebrates (B13)	; vf = very fine; · n active use.	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas	ndicators (2 or more r tained Leaves (B9) (f nd 4B) Patterns (B10) son Water Table (C2)	<u>required)</u> MLRA 1, 2,
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Depth (inches): emarks: S = san vdric soil are likely relic YDROLOGY etland Hydrology Ind imary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	(B2)	s hydrologica	al regime when por eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	the was filled and in Leaves (B9) (exc d 4B) 1) Sebrates (B13) ide Odor (C1) Despheres along Liv	; vf = very fine; · n active use.	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas Saturatio Geomor	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (f ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2)	<u>required)</u> MLRA 1, 2,
Depth (inches): emarks: S = san ydric soil are likely relic YDROLOGY etland Hydrology Ind imary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (I	(B2)	s hydrologica	al regime when por eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re	Leaves (B9) (exc d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Lir educed Iron (C4)	; vf = very fine; · n active use. cept MLRA	+ = heavy (mo - <u>Secondary Ir</u> Water-S 4A, ar Drainage Dry-Seas Saturatio Geomory Shallow	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (f ind 4B) P Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3)	<u>required)</u> MLRA 1, 2,
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Depth (inches): emarks: S = san ydric soil are likely relic (YDROLOGY fetland Hydrology Ind rimary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks	(B6)	s hydrologica required; che - - - - - - - - - - - - - - - - - - -	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B1 ⁻ Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Recent Iron Re Stunted or Stre	Leaves (B9) (exc d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Li educed Iron (C4) eduction in Tilled s essed Plants (D1)	; vf = very fine; · n active use. cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (mo - <u>Secondary Ir</u> Water-S' 4A, ar Drainage Dry-Seas Saturatio Geomory Shallow FAC-Net Raised A	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) <u>required)</u> VILRA 1, 2,) nagery (C9) R A)
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Depth (inches): emarks: S = san ydric soil are likely relic YDROLOGY etland Hydrology Ind imary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible o Sparsely Vegetated eld Observations:	(B2) (B2) (B2) (B2) (Concave Su	s hydrologica required; cho - - - - - - - - - - - - - - - - - - -	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B1 ⁻ Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain No X	Leaves (B9) (exc d 4B) 1) borates (B13) ide Odor (C1) bospheres along Li educed Iron (C4) eduction in Tilled eased Plants (D1) in Remarks) Depth (inches):	; vf = very fine; · n active use. cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (mo	andicators (2 or more r tained Leaves (B9) (I and 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In ohic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI save Hummocks (D7)	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Depth (inches): emarks: S = san ydric soil are likely relic YDROLOGY fetland Hydrology Ind rimary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B3) Surface Soil Cracks Inundation Visible o Sparsely Vegetated eld Observations: Surface Water Present?	(B2) (B2) (B2) (B2) (Concave Su	s hydrologica required; che - - - - - - - - - - - - - - - - - - -	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B1 ⁻ Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain No X No X	Leaves (B9) (exc d 4B) 1) bebrates (B13) ide Odor (C1) bespheres along Life educed Iron (C4) eduction in Tilled essed Plants (D1) in Remarks) Depth (inches): Depth (inches):	; vf = very fine; · n active use. cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (mo	pre clay); - = light (les <u>indicators (2 or more r</u> tained Leaves (B9) (N ind 4B) Patterns (B10) son Water Table (C2) on Visible on Aerial In phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRI	s clay) required) MLRA 1, 2,) nagery (C9) R A) ?
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Investigator(s): Clare Kenny, Taya K. MacLean Section, Township, Range: Section 31, T375, R1W and/orm hildrop, Israe, etc.: Toodplain terrace Local tell (concerve, conver, conver, conver, conver, Stope (%); <.d. Solid Mo Unit Name: Unit 23A: Camas-Newberg-Evans complex NVI classification: none ver dimate / hydropdogc conditions on the site typical for this time of year? Yes X No (If no. cypitalin Remarks.) Solid Mo Unit Name: Solid or Hydrology input relation Yes X No (If no. cypitalin Remarks.) SUMMARY OF FINDINGS - Attach site maps Inshoring a sympling point locations, transects, important features, etc. Hydrolytic/vegatation Present? Yes X No If the sampled Area within a Wetland Hydrology Present? Yes X No Is the Sampled Area within a Wetland? No If the sample is the sample	Project/Site: Medford Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Date	e: 4/21/2015
Investigator(s): Clare Kenny, Taya K. MacLean Section, Township, Range: Section 31, T375, R1W and/orm hildrop, Israe, etc.: Toodplain terrace Local tell (concerve, conver, conver, conver, conver, Stope (%); <.d.	Applicant/Owner: City of Medford				State: OR	Sampling	Point: P17
and/form (hiskes, service, str.) toodplain terrace Local refield (conraw, convex, none) concave Stope (%), <3		ean	Section. T	ownship, Rang	e: Section 31. T37S.	-	
Babregion (LRR): A, Northwest Forests and Coast Lat: Long: Datum: NAD 1883 Sold Mop Unit Nome: Unit 234: Consex-Newberg-Evens complex NVI destification: none ver Vegetation Sold ort Hydrology significantly disturbed? NVI destification: none ver Vegetation Sold ort Hydrology significantly disturbed? NVI destification: none ver Vegetation Sold ort Hydrology significantly disturbed? NVI destification: none Ver Vegetation Sold ort Hydrology significantly disturbed? NVI destification: none SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrology resent? Yes X No SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Interaction for the Hydrology resent? Yes X No Vesice 1017 Yes X No is the Sampled Area within a Wetland? Yes X No Vesice 1101 Absolute Dominant Indicator Number of Dominant Species Number of Dominant Species Paulus balaxmifera 30% Yes FACU Prevalence							Slope (%): <3
Soli Map Unit Name: Unit 23A: Canasa-Newberg-Evans complex NV NV NV NV NV NV If the explain in Remarks) Vere Vegetation			l at:	-			
Vec X No (ff no. explain in Remarks) ver Vegetation							
vev Vegetation				Ye			
verversetter Sold	, ,						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No Wetland Hydrology Present? Yes X No Is the Sampled Area within a Wetland? Yes X No "recipitation prior to fieldwork: Dry spring evaluation term attache backause most of wetland surrounded by meetand backause most of wetland surrounded by meetand backause most of wetland surrounded by meetands backause most of wetlands surrounded by meetands backause most of wetlands surrounded by meetands backause most of wetlands surrounded by meetand backause most of wetlands surrounded by meetand backause most of wetlands surrounded by meetands backause most of wetlands surrounded by meetand backause most of wetlands surrounded by meetands backause most of wetlands surrounded by meetand backause survey is a survey at a survey						•	
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland Hydrophytic Vegetation Vetatland Hydrophytic Vegetation prior to fieldwork: Dry spring evaluation Dry spring evaluation No		site map sho	wing sampling	point locat	ions, transects,	important fe	atures, etc.
Hydric Soil Present? Yes X No Is the Sampled Area Wetland Hydrology Present? Yes X No within a Wetland? Yes X No Yes X No within a Wetland? Yes X No Yes X No within a Wetland? Yes X No Yes X No within a Wetland? Yes X No Yes X No monodary in wetland because most of wetland surrounded by mecentable blackberry. Near 'BCVSA' sion and water line manhole. Wetland receives hydroloav from Bear Creek floodolain. // EGETATION Absolute Dominant Indicator Dominant Species Teal Stratum (Plot size: _0'r) Species? Sistus Total Number of Dominant Species *					· · · · · · · · · · · · · · · · · · ·	•	
Watand Hydrology Present? Yes X No within a Wetland? Yes X No Precipitation prior to fieldwork: Dry spring evaluation Enarks: X No X	Hydric Soil Present?	Yes X	No	Is the Samp	led Area		
Precipitation prior to fieldwork: Dry spring evaluation Precipitation prior to fieldwork: Dry spring evaluation Remarks: Eld vector of Bear Creek greenway. Plot placed on study area boundary in wetland because most of wetland surrounded by memorizable blackberry. Near: BCVSA sion and water line manhole. Wetland receives hydrolooy from Bear Creek floodolain. VEGETATION Absolute Dominant Indicator Yees FAC Number of Dominant Species Number of Dominant Species *	Wetland Hydrology Present?		No	within a We	tland? Yes	X No	
Remarks: Vertication of Bear Creek greenway. Plot placed on study area boundary in wetland because most of wetland surrounded by menetrable blackbery. Near 'BCVSA' sion and water line manhole. Wetland receives hydroloxy from Bear Creek floodolain. VEGETATION Absolute Dominant Indicator '''''''''''''' Dominant Indicator ''''''''''''''''''''''''''''''''''''		evaluation					
meanetrable blackberry. Near BCVSA' sion and water line manhole. Wetland receives hydroloov from Bar Creek floodolain. VEGETATION Absolute Dominant Indicator Dominance Test worksheet: Number of Dominant Species Itele Stratum (Plot size: _30' r.) % Cover Species? Status Number of Dominant Species Populus balsamifera 30% Yes FAC Total Number of Dominant Species Across All Strata: 3 (B) Sapling/Shrub_Stratum (Plot size: _10' r.) 30% Yes FACU Percent of Dominant Species Rubus armeniacus 20% Yes FACU That Are OBL, FACW, or FAC: 50% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 </td <td>Remarks:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Remarks:						
VEGETATION Indicator Dominance Test worksheet: Number of Dominant Species Populus balsamifera 30% Yes FAC 30% Yes FAC That Are OBL, FACW, or FAC: 2 (A) A							unded by
Absolute Dominant Indicator Dominance Test worksheet: Itee Stratum (Plot size:30' r) % Cover Species? Status Image: Stratum 30% Yes FAC That Are OBL, FACW, or FAC:2(A) Image: Stratum (Plot size:10' r) 30% Yes FAC Total Number of Dominant Species Saoling/Shrub Stratum (Plot size:10' r) 30% Yes FACU Percent of Dominant Species Saoling/Shrub Stratum (Plot size:10' r) 30% Yes FACU Prevalence Index worksheet: Saoling/Shrub Stratum (Plot size:5' r) 20% Yes FACU Prevalence Index worksheet: Saoling/Shrub Stratum (Plot size:5' r) 20% Yes FACU Prevalence Index worksheet: Saoling/Shrub Stratum (Plot size:5' r) 20% Yes FACW Prevalence Index worksheet: 0 Saoling/Shrub Stratum (Plot size:5' r) 20% Yes FACW Saoling Stratum 0 Saoling/Shrub Stratum (Plot size:5' r) 65% Yes FACW Saoling Stratum 0		d water line man	nole. Wetland recei	ves hvaroloav i	rom Bear Creek flood	plain.	
Tree Stratum (Plot size:30' r) % Cover Species? Status Number of Dominant Species Populus baisamifera 30% Yes FAC That Are OBL, FACW, or FAC:2 (A) A		Abcoluto	Dominant	Indicator	Dominanco Tost y	workshoot:	
Populus beisamilera 30% Yes FAC That Are OBL, FACW, or FAC: 2 (A) 30% Yes FAC That Are OBL, FACW, or FAC: 2 (A) 30% Yes FAC That Are OBL, FACW, or FAC: 2 (A) 30% Yes FACU Total Number of Dominant Species Across All Strata: 3 (B) 30% Yes FACU Percent of Dominant Species That Are OBL, FACW, or FAC: 57% (A/B) Rubus armeniacus 20% Yes FACU Percent of Dominant Species 1 1 1 0 4 20% Yes FACU Prevalence Index worksheet: 1 1 1 1 0 5. 20% = Total Cover FACW species 65 x 2 = 130 1 1 1 0 1 1 0 1	Tree Stratum (Plot size: 30' r)						
- Topolas basaninera 30.% 1 es 1 Ac 1 Ac <td< td=""><td>1</td><td></td><td></td><td></td><td></td><td>•</td><td>2 (4)</td></td<>	1					•	2 (4)
30% = Total Cover 30% = Total Cover 30% = Total Cover Percent of Dominant Species 30% Percent of Dominant Species 1 Rubus armeniacus 20% Yes FACU Prevalence Index worksheet: Total % Cover of: Multiply by: A	2.	30%	res	FAC	That Are OBL, FAC		(A)
Image: Stratum (Plot size: 10' r) 30% = Total Cover Percent of Dominant Species Sapling/Shrub Stratum (Plot size: 10' r) 20% Yes FACU Rubus armeniacus 20% Yes FACU Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 Same 20% Total % Cover of: Multiply by: OBL species 0 FAC species 30 x 3 = 20% Total % Cover of: 50 x 1 = 20% Total % Cover of: FACW species 20% Total % Cover of: FAC species 20% Total % Yes FACW Prevalence Index is 3.0 Son 20% Total % Yes FACW 20% Total % Cover of: Son 30 Son Son 4 Morphological Adaptations (Provide supporting data in	3.				Tatal New Arms (D		
30% = Total Cover 30% = Total Cover Percent of Dominant Species 20% Yes FACU Prevalence Index worksheet: Total % Cover of: Mubus armeniacus 20% Yes FACU Prevalence Index worksheet: Total % Cover of: Mubus armeniacus 20% Yes FACU Prevalence Index worksheet: Total % Cover of: Mubus armeniacus 20% = Total Cover FAC Species 65 20% = Total Cover FAC Species 0 x 3 = 90 FAC Species 0 x 3 = 90 FAC Species x 4 = 80 UPL species x 4 = 2.61 Same	4.						
Sapling/Shrub Stratum (Plot size: 10' r) Percent of Dominant Species Rubus armeniacus 20% Yes FACU That Are OBL, FACW, or FAC: 67% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 Statistication 20% Yes FACU Prevalence Index worksheet: 0 Statistication 20% = Total Cover FACW species 0 x1 = 0 FACU species 0 x1 = 0 0 5 20% = Total Cover FACU species 20 x4 = 80 UPL species 0 x5 = 0					Species Across All	Strata:	<u>3</u> (B)
Rubus armeniacus 20% Yes FACU That Are OBL, FACW, or FAC: $\overline{67\%}$ (A/B) a.	Sopling/Shruh Stratum (Distained 401 r	-	= Total Cover				
1 1)					
A. Image: Constraint of the end of the en		20%	Yes	FACU	That Are OBL, FAC	CW, or FAC:	<u>67%</u> (A/B)
A.	2.						
S.	3				I otal % Cover	r of: Multiply b	<u>'Y:</u>
20% = Total CoverFAC species 30 $\times 3 =$ 90 \oplus $Phalaris arundinacea65\%YesFACWFACU species20\times 4 =80UPL species000$	4				OBL species	0 x 1 =	0
Herb Stratum (Plot size: $5' r$) FACW FACW FACU species 20 x 4 = 80 Phalaris arundinacea 65% Yes FACW UPL species 0 x 5 = 0 Column Totals: 115 (A) 300 (B) Prevalence Index = B/A = 2.61 Hydrophytic Vegetation Indicators: 1 Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is $≤3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - - - 0 - - - 1 - - - 0. - - - 1 - - - 0. - - - 1 - - - 0. - - - 10. - - - 11. - - - 0. - - - 1. - - - 0. -	5	<u> </u>			FACW species	65 x 2 =	130
Phalaris arundinacea 65% Yes FACW UPL species 0 $x 5 =$ 0 2.		20%	= Total Cover		FAC species	30 x 3 =	90
Interference Item Item Item Item 2. Item	<u>Herb Stratum</u> (Plot size: <u>5' r</u>)				FACU species	20 x 4 =	80
B. Prevalence Index = $B/A = 2.61$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation S. 1 - Rapid Test for Hydrophytic Vegetation S. X 2 - Dominance Test is >50% Y. X 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5. 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain) 11. Hydrophytic Soil and wetland hydrology must be present. Hydrophytic Hydrophytic	1. Phalaris arundinacea	65%	Yes	FACW	UPL species	0 x 5 =	0
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 3. 1 7. . 8. . 9. . 10. . 11. . 12. . 13. . 14. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 15. . 16. . 17. . 18. . 19. . 10. . 11. . 12. . 13. . 14. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 15. . 11. . 12. . 13. . 14. . 15. . 165% = Total Cover 11. . 12. . 13. . 14. . 15. . </td <td>2.</td> <td></td> <td></td> <td></td> <td>Column Totals:</td> <td>115 (A)</td> <td>300 (B)</td>	2.				Column Totals:	115 (A)	300 (B)
5. 1 - Rapid Test for Hydrophytic Vegetation 5. X 2 - Dominance Test is >50% 7. X 3 - Prevalence Index is ≤3.01 8. 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 0. 5 - Wetland Non-Vascular Plants1 11. Problematic Hydrophytic Vegetation1 (Explain) 11. 65% 9. 65% 9. 11 Indicators of hydric soil and wetland hydrology must be present. 11. Hydrophytic	3.				Prevalence Inde	= B/A =	2.61
S. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 0. 5 - Wetland Non-Vascular Plants ¹ 1. Problematic Hydrophytic Vegetation ¹ (Explain) 1. 65% Yoody Vine Stratum (Plot size: 10' r)) . 45% Hydrophytic	4.				Hydrophytic Vege	tation Indicator	rs:
7.	5.				1 - Rapid Test	for Hydrophytic V	Vegetation
B.	6.				X 2 - Dominance	Test is >50%	
B.	7.				X 3 - Prevalence	Index is ≤3.0 ¹	
b. data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants ¹ 1. Problematic Hydrophytic Vegetation ¹ (Explain) 1. 65% • •	8.				4 - Morphologia	cal Adaptations ¹	(Provide supporting
0. 5 - Wetland Non-Vascular Plants ¹ 1. Problematic Hydrophytic Vegetation ¹ (Explain) 1. 65% = Total Cover Voody Vine Stratum (Plot size: 10' r) . Hydrophytic . Hydrophytic	9.						
1.	10.	<u> </u>					
Woody Vine Stratum (Plot size: 10' r) . .<	11.						
Woody Vine Stratum (Plot size: 10' r_) be present. 		659/	- Total Cavar		· · · · · ·		
Image:	Woody Vine Stratum (Plot size: 10' r		= rotal Cover		-		u nyurology must
P. Hydrophytic	1.				be present.		
	2.				Hydrophytic		
		0%	= Total Cover		Vegetation	Yes X N	lo
% Bare Ground in Herb Stratum 35% Present?	% Bare Ground in Herb Stratum 35%				Present?		
Remarks: Entered by: tkm QC by: cmw	Remarks:				 Enter/	ed by: tkm (QC by: cmw

Depth	Matri	*		Redox F	ealures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 2/2	100					SCL	
4-10	10YR 3/1	85	7.5YR 4/4	15	С	М	SC	
ype: C=Concen	tration, D=Deplet	on, RM=Red	luced Matrix CS=Co	vered or Coated	d Sand Grains.	² Location:	PL=Pore Lining, M=M	atrix.
dric Soil Indica	ators: (Applicabl	e to all LRR	s, unless otherwise	e noted.)		Indicators f	or Problematic Hydr	ic Soils ³ :
Histosol (A1)			X Sandy Redox (S5)		2 cm Mu	ıck (A10)	
Histic Epipedo	on (A2)		Stripped Matrix	(S6)		Red Par	ent Material (TF2)	
Black Histic (A	43)		Loamy Mucky I	Mineral (F1) (ex	cept MLRA 1)	Very Sha	allow Dark Surface (T	F12)
Hydrogen Sulf			Loamy Gleyed	Matrix (F2)			xplain in Remarks)	
	w Dark Surface (A11)	Depleted Matrix					
Thick Dark Su	urface (A12)		X Redox Dark Su	rface (F6)		³ Indicators o	f hydrophytic vegetati	on and
Sandy Mucky	Mineral (S1)		Depleted Dark	Surface (F7)		wetland hy	drology must be pres	ent,
Sandy Gleyed	Matrix (S4)		Redox Depress	sions (F8)		unless dist	turbed or problematic.	
estrictive Layer	(if present):							
Type: Depth (inches):	- cand: Si - cilt:			- coorco: f - fin		ydric Soil Pre		
Depth (inches): emarks: S	= sand; Si = silt; 10" due to large co		loam or loamy; co =	= coarse; f = fine		-	sent? Yes X pre clay); - = light (less	
Depth (inches): emarks: S hovel refusal at 1	10" due to large co		loam or loamy; co =	= coarse; f = fine		-		
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog	10" due to large construction due to large c	obbles.		= coarse; f = fine		-		
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog	10" due to large construction due to large c	obbles.	loam or loamy; co =	= coarse; f = fine		+ = heavy (mo		s clay)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog	10" due to large co gy Indicators:	obbles.	eck all that apply)	= coarse; f = fine	e; vf = very fine;	+ = heavy (mo	ore clay); - = light (less	s clay) equired)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators	10" due to large co gy Indicators: . (minimum of one r (A1)	obbles.	eck all that apply)	Leaves (B9) (e x	e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u> X Water-S	ore clay); - = light (less ndicators (2 or more re	s clay) equired)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY retland Hydrolog rimary Indicators Surface Wate	10" due to large co gy Indicators: (minimum of one r (A1) able (A2)	obbles.	eck all that apply)	Leaves (B9) (ex i 4B)	e; vf = very fine;	+ = heavy (mo <u>Secondary li</u> <u>X</u> Water-S 4A, at	ndicators (2 or more ru tained Leaves (B9) (N	s clay) equired)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3)	obbles.	eck all that apply) Water-Stained 1, 2, 4A, and	Leaves (B9) (ex I 4B))	e; vf = very fine;	+ = heavy (mo <u>Secondary In</u> <u>X</u> Water-S 4A, an Drainage	ndicators (2 or more re tained Leaves (B9) (N	s clay) equired)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1)	obbles.	weck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11	Leaves (B9) (ex i 4B)) brates (B13)	e; vf = very fine;	+ = heavy (mo <u>Secondary la</u> <u>X</u> Water-S 4A, a Drainage Dry-Sea	ndicators (2 or more r tained Leaves (B9) (N nd 4B) e Patterns (B10)	equired) ILRA 1, 2,
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks (10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) posits (B2)	obbles.	Water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1)	e; vf = very fine; ccept MLRA	+ = heavy (mo	ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2)	equired) ILRA 1, 2,
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) posits (B2) (B3)	obbles.	Water-Stained UWater-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1)	e; vf = very fine; ccept MLRA	+ = heavy (mo <u>Secondary II</u> <u>X</u> Water-S 4A, ai Drainage Dry-Sea <u>X</u> Saturatio 3) <u>X</u> Geomor	ndicators (2 or more ra tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im	equired) ILRA 1, 2,
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4)	obbles.	Water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L	e; vf = very fine; ccept MLRA 	+ = heavy (mo - <u>Secondary II</u> <u>X</u> Water-S 4A, au Drainage Dry-Sea <u>X</u> Saturatio Shallow	ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2)	equired) ILRA 1, 2,
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5)	obbles.	Water-Stained UWater-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4)	e; vf = very fine; ccept MLRA iving Roots (C3) I Soils (C6)	+ = heavy (mo + = heavy (mo <u>Secondary II</u> <u>X</u> Water-S 4A, a Drainage Dry-Sea <u>X</u> Saturatio <u>X</u> Geomor Shallow FAC-Ne	ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3)	equired) ILRA 1, 2, nagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5)	required; ch	Water-Stained UWater-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1	e; vf = very fine; ccept MLRA iving Roots (C3) I Soils (C6)	+ = heavy (mo - <u>Secondary II</u> <u>X</u> Water-S 4A, an Drainage Dry-Sea <u>X</u> Saturatio 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	ndicators (2 or more ratained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5)	equired) ILRA 1, 2, nagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6)	agery (B7)	Water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfie Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1	e; vf = very fine; ccept MLRA iving Roots (C3) I Soils (C6)	+ = heavy (mo - <u>Secondary II</u> <u>X</u> Water-S 4A, an Drainage Dry-Sea <u>X</u> Saturatio 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	pre clay); - = light (less ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF	equired) ILRA 1, 2, nagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Ima etated Concave S	agery (B7)	Water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfie Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1	e; vf = very fine; ccept MLRA iving Roots (C3) I Soils (C6)	+ = heavy (mo - <u>Secondary II</u> <u>X</u> Water-S 4A, an Drainage Dry-Sea <u>X</u> Saturatio 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	pre clay); - = light (less ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF	equired) ILRA 1, 2, nagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY retland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Cracks (B6) sible on Aerial Ima etated Concave S ns:	agery (B7) urface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1 in Remarks)	e; vf = very fine; ccept MLRA Living Roots (C3) I Soils (C6) I) (LRR A)	+ = heavy (mo - <u>Secondary II</u> <u>X</u> Water-S 4A, an Drainage Dry-Sea <u>X</u> Saturatio 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	pre clay); - = light (less ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF	equired) ILRA 1, 2, nagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege ield Observatior	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Ima etated Concave S ns: esent? Yes	agery (B7) urface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain No X	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1 in Remarks) Depth (inches):	e; vf = very fine; ccept MLRA iving Roots (C3) I Soils (C6) I) (LRR A)	+ = heavy (mo	ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF eave Hummocks (D7)	equired) ILRA 1, 2, hagery (C9)
Depth (inches): emarks: S hovel refusal at 1 YDROLOGY retland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege Surface Water Pres	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Ima etated Concave S ns: esent? Yes ent? Yes	agery (B7) urface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfie Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain No X	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1 in Remarks) Depth (inches): Depth (inches):	e; vf = very fine; ccept MLRA iving Roots (C3) I Soils (C6) I) (LRR A) 	+ = heavy (mo	pre clay); - = light (less ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF eave Hummocks (D7)	equired) ILRA 1, 2, hagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators 	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Cracks (B6) sible on Aerial Ima etated Concave S ns: esent? Yes ent? Yes of ringe)	agery (B7) urface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain No X No X No X No X	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1 in Remarks) Depth (inches): Depth (inches):	e; vf = very fine; ccept MLRA Living Roots (C3) I Soils (C6) I) (LRR A) ->10 ->10	+ = heavy (mo - <u>Secondary II</u> X Water-S 4A, an Drainage Dry-Sea X Saturatio 3) X Geomor Shallow FAC-Ne Raised / Frost-He Wetlanc	ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF eave Hummocks (D7)	equired) ILRA 1, 2, hagery (C9)
Depth (inches): emarks: S hovel refusal at 1 IYDROLOGY /etland Hydrolog rimary Indicators 	10" due to large co gy Indicators: (minimum of one r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Cracks (B6) sible on Aerial Ima etated Concave S ns: esent? Yes ent? Yes of ringe)	agery (B7) urface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfie Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain No X	Leaves (B9) (ex i 4B)) brates (B13) de Odor (C1) spheres along L educed Iron (C4) duction in Tilled ssed Plants (D1 in Remarks) Depth (inches): Depth (inches):	e; vf = very fine; ccept MLRA Living Roots (C3) I Soils (C6) I) (LRR A) ->10 ->10	+ = heavy (mo - <u>Secondary II</u> X Water-S 4A, an Drainage Dry-Sea X Saturatio 3) X Geomor Shallow FAC-Ne Raised / Frost-He Wetlanc	pre clay); - = light (less ndicators (2 or more re tained Leaves (B9) (N nd 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Im phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRF eave Hummocks (D7)	equired) ILRA 1, 2, hagery (C9)

Project/Site: M	/ledford Urban Re	eserve LWI		City/County:	Medford UR /	Jackson	Sampling Date	e: <u>4/20/20</u>	15
Applicant/Owner:	City of Medford	t		• 		State: OR	Sampling		P18
Investigator(s):	Clare Kenny, T	Гауа К. MacLean		Section, T	ownship, Range	e: Section 33, T37S, F	1W		
Landform (hillslope	, terrace, etc.):	terrace			Local relief (concave, convex, none):	concave	Slope (%)): <3
Subregion (LRR):	A, Northwest F	Forests and Coast	Lat:	42.302120	Long	g: <u>-122.823300</u>	Datun	n: <u>NAD 19</u>)83
Soil Map Unit Nan	ne: Unit	t 43: Darow silty clay lo	am			NWI	classification: n	ione	
Are climatic / hydr	rologic condition	s on the site typical for	this time of y	ear?	Yes			plain in Re	
Are Vegetation	,Soil		· · ·	- ·		re "Normal Circumstar			No
Are Vegetation	,Soil			_naturally prot		f needed, explain any			
		 Attach site ma 			point locati	ons, transects, I	mportant te	atures,	etc.
Hydrophytic Vege			No No		la tha Sampl	Augo			
Hydric Soil Prese		Yes	X No		Is the Sampl	lond2			
Wetland Hydrolog		Yes	No	<u> </u>	within a Wet	land? Yes	No	<u>X</u>	
Precipitation prior Remarks: Recently drained I		Dry spring evaluation nanagement practices.		nection to S08	s mapped ditch.				
VEGETATION	<u> </u>					1			
Taxa Otratum			osolute	Dominant	Indicator	Dominance Test w			
Tree Stratum	(Plot size: <u>30</u>	<u>/ˈr) %</u>	Cover	Species?	Status	Number of Dominar			
1.						That Are OBL, FAC	W, or FAC:	0	(A)
2.									
3.						Total Number of Do			
4.						Species Across All	Strata:	3	(B)
			0% = Tota	al Cover					
Sapling/Shrub Stra	atum (Piot	ot size: <u>10' r</u>)				Percent of Dominan	t Species		
1.						That Are OBL, FAC	W, or FAC:	<u>0%</u>	(A/B)
2.						Prevalence Index v			
3.						Total % Cover	of: Multiply b	<u>)y:</u>	
4.						OBL species	0 x 1 =	0	
5.						FACW species	0 x 2 =	0	
			0% = Tota	al Cover		FAC species	10 x 3 =	30)
Herb Stratum	(Plot size: <u>5</u> '	<u> </u>				FACU species	25 x 4 =	100	0
1. Geranium mo	olle		30%	Yes	NOL	UPL species	60 x 5 =	300	00
2. Vulpia micros	stachys		20%	Yes	NOL	Column Totals:	95 (A)	430	0 (B)
3. Medicago pol	lymorpha		20%	Yes	FACU	Prevalence Inde	x = B/A =	4.53	
4. Lupinus bicol	lor		10%	No	NOL	Hydrophytic Veget	ation Indicator	rs:	
5. Alopecurus p	ratensis		5%	No	FAC	1 - Rapid Test f	or Hydrophytic	Vegetatior	۱ ^ا
6. Vicia america	ana		5%	No	FAC	2 - Dominance	Fest is >50%		
7. Poa bulbosa			5%	No	FACU	3 - Prevalence I	ndex is ≤3.0 ¹		
8.						4 - Morphologic	al Adaptations ¹	(Provide s	supporting
9.						data in Rema	arks or on a se	parate she	et)
10.						5 - Wetland Nor			
11.						Problematic Hy			plain)
Woody Vine Strate	um (Plo	ot size: <u>10' r</u>)	95% = Tota	al Cover		¹ Indicators of hydric be present.			
1.									
2			0% = Tota	al Cover		Hydrophytic Vegetation	Yes N	No <u>X</u>	_
% Bare Ground in	Herb Stratum	5%				Present?			
Remarks:						Entere	d by: tkm 0	QC by: cm	IW

(inches) Color (-	
	moist)	%	Color (mois	t) <u>q</u>	6	Type ¹	Loc ²	Texture	Remark
0-12 10YF	3/2	95	10YR 4/6	<u>} </u>	5	С	М	CL	
/pe: C=Concentration,	D-Doplotion	M-Roduco	Motrix CS.	-Covorod o	r Coatod S	Sand Grains	² Location:	PL=Pore Lining, M=N	Actrix
dric Soil Indicators: (A	•					Sanu Grains.		for Problematic Hyd	
-					.,			-	
Histosol (A1)			Sandy Redo	. ,				uck (A10)	
Histic Epipedon (A2)			Stripped Ma	· · /				rent Material (TF2)	
Black Histic (A3)				-		ept MLRA 1)		nallow Dark Surface (1	F12)
Hydrogen Sulfide (A4)			Loamy Gley		F2)		Other (Explain in Remarks)	
Depleted Below Dark	Surface (A11)		Depleted M	atrix (F3)			2		
Thick Dark Surface (A	.12)	X	Redox Dark	Surface (F	6)		Indicators	of hydrophytic vegetat	ion and
Sandy Mucky Mineral	(S1)		Depleted Da	ark Surface	(F7)		wetland h	ydrology must be pres	sent,
Sandy Gleyed Matrix	(S4)		Redox Depi	ressions (F8	3)		unless dis	sturbed or problematic	
Type: Depth (inches): emarks: S = sand; /dric soils are likely relic					e; f = fine;		Hydric Soil Pr ; + = heavy (m	esent? Yes X hore clay); - = light (les	No ss clay)
Depth (inches):	due to recent				e; f = fine;		•		
Type: Depth (inches): emarks: S = sand; ydric soils are likely relic YDROLOGY etland Hydrology Indic	ators:	changes in	hydrological	l regime.	; f = fine;		;; + = heavy (m		ss clay)
Type: Depth (inches): emarks: S = sand; vdric soils are likely relic YDROLOGY etland Hydrology Indic	ators:	changes in lired; check	hydrological	l regime.		vf = very fine	;; + = heavy (m <u>Secondary</u>	ore clay); - = light (les	required)
Type: Depth (inches): ormarks: S = sand; vdric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimu	ators:	changes in lired; check	hydrological	l regime. y) ned Leaves		vf = very fine	; + = heavy (m <u>Secondary</u> Water-{	ore clay); - = light (les	required)
Type: Depth (inches): emarks: S = sand; vdric soils are likely relic YDROLOGY etland Hydrology Indic imary Indicators (minimu Surface Water (A1)	ators:	uired; check	hydrological all that appl Water-Stair	y) hed Leaves and 4B)		vf = very fine	; + = heavy (m <u>Secondary</u> Water-3 4A, a	ore clay); - = light (les Indicators (2 or more l Stained Leaves (B9) (l	required)
Type: Depth (inches): emarks: S = sand; /dric soils are likely relic YDROLOGY etland Hydrology Indic imary Indicators (minimu _ Surface Water (A1) High Water Table (A2	ators:	uired; check	hydrological all that appl Water-Stair 1, 2, 4A,	y) ned Leaves and 4B) B11)	(B9) (exc	vf = very fine	;; + = heavy (m 	lore clay); - = light (les Indicators (2 or more to Stained Leaves (B9) (l Ind 4B)	required) MLRA 1, 2,
Type: Depth (inches): omarks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimuse Surface Water (A1) High Water Table (A2 Saturation (A3)	ators: um of one requ	uired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I	y) ned Leaves and 4B) B11) ertebrates ((B9) (exc B13)	vf = very fine	; + = heavy (m <u>Secondary</u> Water- 4A, a Drainag Dry-Sea	Indicators (2 or more I Stained Leaves (B9) (I and 4B) Je Patterns (B10)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; /dric soils are likely relic YDROLOGY etland Hydrology Indic imary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	ators: um of one requ	uired; check	hydrological all that appl Water-Stair 1, 2, 4A , Salt Crust (I Aquatic Inve Hydrogen S	y) ned Leaves and 4B) B11) ertebrates (sulfide Odor	(B9) (exc B13) (C1)	vf = very fine	; + = heavy (m 	nore clay); - = light (les Indicators (2 or more l Stained Leaves (B9) (I Ind 4B) Je Patterns (B10) ason Water Table (C2	required) MLRA 1, 2,
Type: Depth (inches): marks: S = sand; vdric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimus Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ators: um of one requ) 2)	uired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Invo Hydrogen S Oxidized Rh	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor nizospheres	(B9) (exc B13) (C1) along Liv	vf = very fine		Indicators (2 or more Stained Leaves (B9) (I and 4B) Pe Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4	ators: um of one requ) 2)	uired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence o	y) ned Leaves and 4B) B11) ertebrates (sulfide Odor hizospheres f Reduced I	(B9) (exc B13) (C1) along Liv ron (C4)	vf = very fine		Indicators (2 or more light (les Indicators (2 or more light) Stained Leaves (B9) (I and 4B) ge Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) r Aquitard (D3)	required) MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimus) Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	ators: um of one requ) 2)	uired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor nizospheres f Reduced I Reduction	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S	vf = very fine ept MLRA ving Roots (C Soils (C6)		Indicators (2 or more I Stained Leaves (B9) (I and 4B) Je Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) Aquitard (D3) eutral Test (D5)	required) MLRA 1, 2,) nagery (C9)
Type: Depth (inches): emarks: S = sand; ydric soils are likely relice YDROLOGY Yetland Hydrology Indice timary Indicators (minimul Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Mathematical Science Scien	ators: um of one requ) 2) 36)	uired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence of Recent Iron Stunted of S	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Stressed Pl	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1)	vf = very fine ept MLRA ving Roots (C Soils (C6)		Indicators (2 or more I Stained Leaves (B9) (I and 4B) ge Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): marks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimu- Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on	ators: um of one requ) 2) 2) 4) 36) Aerial Imagery	Lired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Stressed Pl	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1)	vf = very fine ept MLRA ving Roots (C Soils (C6)		Indicators (2 or more I Stained Leaves (B9) (I and 4B) Je Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) Aquitard (D3) eutral Test (D5)	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): emarks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indic imary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C	ators: um of one requ) 2) 2) 4) 36) Aerial Imagery	Lired; check	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence of Recent Iron Stunted of S	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Stressed Pl	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1)	vf = very fine ept MLRA ving Roots (C Soils (C6)		Indicators (2 or more I Stained Leaves (B9) (I and 4B) ge Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): marks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C eld Observations:	ators: um of one requ) 2) 36) Aerial Imagery oncave Surfac	(B7)	hydrological all that appl Water-Stair 1, 2, 4A , Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	y) med Leaves and 4B) B11) ertebrates (sulfide Odor nizospheres f Reduced I Reduced I Reduction Stressed Pl ain in Rema	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1) arks)	vf = very fine ept MLRA ving Roots (C Soils (C6)		Indicators (2 or more I Stained Leaves (B9) (I and 4B) ge Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): marks: S = sand; ydric soils are likely relice YDROLOGY etland Hydrology Indice imary Indicators (minimu- Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C eld Observations: urface Water Present?	ators: um of one requ) 2) 2) 36) Aerial Imagery oncave Surfac Yes	(B7)	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Invo Hydrogen S Oxidized RH Presence of Recent Iron Stunted or S Other (Expla X	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Stressed Pl ain in Rema	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1) arks)	vf = very fine ept MLRA ving Roots (C Soils (C6) (LRR A)	; + = heavy (m .; + = heavy (m 	Indicators (2 or more f Indicators (2 or more f Stained Leaves (B9) (I ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7)	required) MLRA 1, 2,) magery (C9) R A)
Type: Depth (inches): emarks: S = sand; ydric soils are likely relice YDROLOGY YDROLOGY Yetland Hydrology Indic timary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C eld Observations: Surface Water Present? Vater Table Present?	ators: um of one requ) 2) 36) Aerial Imagery oncave Surfac	(B7)	Additional and the second seco	y) ned Leaves and 4B) B11) ertebrates (sulfide Odor hizospheres f Reduced I Reduction Stressed Pl ain in Rema Depth (Depth ((B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1) arks)	vf = very fine ept MLRA ving Roots (C Soils (C6) (LRR A) >12	; + = heavy (m .; + = heavy (m 	Indicators (2 or more I Stained Leaves (B9) (I and 4B) ge Patterns (B10) ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): emarks: S = sand; ydric soils are likely relic YDROLOGY Yetland Hydrology Indic rimary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on	ators: um of one requ) 2) 2) 36) Aerial Imagery oncave Surfac Yes	(B7)	hydrological all that appl Water-Stair 1, 2, 4A, Salt Crust (I Aquatic Invo Hydrogen S Oxidized RH Presence of Recent Iron Stunted or S Other (Expla X	y) ned Leaves and 4B) B11) ertebrates (Gulfide Odor hizospheres f Reduced I Reduction Stressed Pl ain in Rema	(B9) (exc B13) (C1) along Liv ron (C4) in Tilled S ants (D1) arks)	vf = very fine ept MLRA ving Roots (C Soils (C6) (LRR A)	; + = heavy (m .; + = heavy (m 	Indicators (2 or more f Indicators (2 or more f Stained Leaves (B9) (I ason Water Table (C2 ion Visible on Aerial Ir rphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7)	required) MLRA 1, 2,) magery (C9) R A)

Project/Site: Medford Urban Reserve LWI	-	City/County:	Medford UR	/ Jackson Sampling Date: 4/22/2015
Applicant/Owner: City of Medford				State: OR Sampling Point: P20
Investigator(s): Clare Kenny, Taya K. MacLe	an	Section, T	ownship, Rang	ge: Section 5, T38S, R1W
Landform (hillslope, terrace, etc.): floodplain te	rrace		Local relief	; (concave, convex, none): concave Slope (%): <3
Subregion (LRR): A, Northwest Forests and Co	bast	Lat: 42.293770	_ Lor	ng: -122.850400 Datum: NAD 1983
Soil Map Unit Name: Unit 76A: Gregory			_	NWI classification: PEMC, PUBHx
Are climatic / hydrologic conditions on the site ty			Ye	es X No (If no, explain in Remarks)
, , , , , , , , , , , , , , , , , , , ,	, or Hydrology	significantly	disturbed?	Are "Normal Circumstances" present? Yes X No
	, or Hydrology	naturally prol	blematic? ((If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach s	ite map sho	wing sampling	point locat	tions, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes X	No		
Hydric Soil Present?	Yes X	No	Is the Samp	pled Area
Wetland Hydrology Present?	Yes X	No	within a We	etland? Yes X No
Precipitation prior to fieldwork: Dry spring e	valuation			
Remarks:				
Wetland W19_A. Low area adjacent to stream a	ind well-defined	topographically. Re	cieves surface	flow from adjacent uplands and overflow from stream.
VEGETATION				
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30' r</u>)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 1 (A)
2.				
3.	·			Total Number of Dominant
4.	·			Species Across All Strata: 1 (B)
	0%	= Total Cover		
Sapling/Shrub Stratum (Plot size:10' r_				Percent of Dominant Species
1.	/			That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2.				
3.	·			Prevalence Index worksheet: Total % Cover of: Multiply by:
4.				
	·			OBL species $15 \times 1 = 15$
5		T (10		FACW species $27 \times 2 = 54$
Herb Stratum (Plot size: <u>5' r</u>)	0%	= Total Cover		FAC species $18 \times 3 = 54$
				FACU species $0 \times 4 = 0$
1. Juncus effusus	25%	Yes	FACW	UPL species $0 \times 5 = 0$
2. Schedonorus arundinaceus	10%	No	FAC	Column Totals: 60 (A) 123 (B)
3. <u>Eleocharis palustris</u>	10%	No	OBL	Prevalence Index = $B/A = 2.05$
4. Lotus corniculatus	5%	No	FAC	Hydrophytic Vegetation Indicators:
5. Veronica peregrina	5%	No	OBL	1 - Rapid Test for Hydrophytic Vegetation
6. Ranunculus repens	3%	No	FAC	X 2 - Dominance Test is >50%
7. Carex praegracilis	2%	No	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations ¹ (Provide supporting
9				data in Remarks or on a separate sheet)
10				5 - Wetland Non-Vascular Plants ¹
11				Problematic Hydrophytic Vegetation ¹ (Explain)
		= Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: <u>10' r</u>	_)			be present.
1				l hulten hutie
2		Tatal Ora		Hydrophytic Vogotation Vos V No
	0%	= Total Cover		Vegetation Yes <u>X</u> No
% Bare Ground in Herb Stratum 40%				Present?
Remarks:				Entered by: tkm QC by: cmw

(inches) Color (mois 0-7 10YR 2/1 7-16 10YR 2/1	t) %	Color (moist)					
			%	Type ¹	Loc ²	Texture	Remark
7-16 10YR 2/1	100					С	
	95	5YR 3/3	3	С	М	С	
		10YR 3/2	2	С	М	С	
						· · · · · · · · · · · · · · · · · · ·	
Type: C=Concentration, D=D	epletion. RM=Re	educed Matrix CS=Co	vered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=N	Matrix.
ydric Soil Indicators: (Appli	· ·					or Problematic Hyd	2
Histosol (A1)		Sandy Redox (S				uck (A10)	
Histic Epipedon (A2)		Stripped Matrix				rent Material (TF2)	
Black Histic (A3)			(00) /lineral (F1) (exc	ent MI RA 1)		allow Dark Surface (1	F12)
Hydrogen Sulfide (A4)		Loamy Gleyed				Explain in Remarks)	1 12)
	000 (011)						
Depleted Below Dark Surfa Thick Dark Surface (A12)	ace (ATT)	Depleted Matrix	. ,		³ Indicators o	of hydrophytic vegetat	ion and
		X Redox Dark Su				, , , , ,	
Sandy Mucky Mineral (S1)		Depleted Dark				/drology must be pres	
		Redox Depress	lions (F8)		uniess dist	turbed or problematio	
Type: Depth (inches):		= loam or loamy; co =	= coarse; f = fine		ydric Soil Pre + = heavy (mo		No ss clay)
estrictive Layer (if present) Type: Depth (inches): emarks: S = sand; Si = HYDROLOGY	silt; C = clay; L	= loam or loamy; co =	= coarse; f = fine		•		
Image: Settictive Layer (if present): Type: Depth (inches): Image: Settiction Settiction Image: Settiction Image: Settiction Settiction Image: Settiction <td< td=""><td>silt; C = clay; L s:</td><td></td><td>= coarse; f = fine</td><td></td><td>+ = heavy (mo</td><td>ore clay); - = light (les</td><td>ss clay)</td></td<>	silt; C = clay; L s:		= coarse; f = fine		+ = heavy (mo	ore clay); - = light (les	ss clay)
Image: Sestrictive Layer (if present): Type: Depth (inches): Image: Sestriction (inches): Image: Sestrift (inches):	silt; C = clay; L s:	heck all that apply)		; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more	required)
estrictive Layer (if present): Type: Depth (inches): emarks: S = sand; Si = IYDROLOGY /etland Hydrology Indicator rimary Indicators (minimum of Surface Water (A1)	silt; C = clay; L s:	heck all that apply)	Leaves (B9) (ex e	; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (l	required)
Image: Sestrictive Layer (if present): Type: Depth (inches): Image: Sestemarks: S = sand; Si = Image: Sestemarks: S = sand; Si = Image: Sestemarks: Surface Water (A1) High Water Table (A2)	silt; C = clay; L s:	heck all that apply) Water-Stained 1, 2, 4A, and	Leaves (B9) (ex (; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more stained Leaves (B9) (nd 4B)	required)
Image: Sestrictive Layer (if present): Type: Depth (inches): iemarks: S = sand; Si = Image: Sestimation of the sesti	silt; C = clay; L s:	theck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11	Leaves (B9) (ex (I 4B))	; vf = very fine;	+ = heavy (mo <u>Secondary In</u> Water-S 4A, an X Drainage	ore clay); - = light (les ndicators (2 or more stained Leaves (B9) (I nd 4B) e Patterns (B10)	required) MLRA 1, 2,
Image: Sector Control of	silt; C = clay; L s:	water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverted	Leaves (B9) (ex o I 4B)) brates (B13)	; vf = very fine;	+ = heavy (mo <u>Secondary la</u> Water-S 4A, au X Drainage Dry-Sea	ore clay); - = light (les ndicators (2 or more stained Leaves (B9) (nd 4B) e Patterns (B10) ison Water Table (C2	required) MLRA 1, 2,
Restrictive Layer (if present): Type: Depth (inches): Remarks: S = sand; Si = HYDROLOGY Vetland Hydrology Indicator trimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	silt; C = clay; L s:	theck all that apply) Water-Stained I 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1)	; vf = very fine;	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more stained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir	required) MLRA 1, 2,
Image: Sector Control of	silt; C = clay; L s:	Water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverted Hydrogen Sulfic Oxidized Rhizos	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li	; vf = very fine; cept MLRA	+ = heavy (mo - <u>Secondary II</u> Water-S 4A, ai X Drainage Dry-Sea Saturatio 3) X Geomor	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2)	required) MLRA 1, 2,
Image: Sector Control of	silt; C = clay; L s:	Water-Stained Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4)	; vf = very fine; cept MLRA	+ = heavy (mo - <u>Secondary II</u> Water-S 4A, au X Drainage Dry-Sea Saturatio Saturatio X Geomor Shallow	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3)	required) MLRA 1, 2,
Restrictive Layer (if present): Type: Depth (inches): Remarks: S = sand; Si = HYDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5)	silt; C = clay; L s:	theck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Re	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> Water-S 4A, ai X Drainage Dry-Sea Saturatio 3) X Geomor Shallow FAC-Nei	ore clay); - = light (les ndicators (2 or more stained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5)	required) MLRA 1, 2,) nagery (C9)
Image: Sector Control of	silt; C = clay; L s: <u>f one required; c</u>	theck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rei Stunted or Stree	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, an <u>X</u> Drainage Dry-Sea <u>Saturatio</u> 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Image: Sector Control of	silt; C = clay; L s: f one required; c	theck all that apply) Water-Stained I 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rea Stunted or Strea Other (Explain i	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, an <u>X</u> Drainage Dry-Sea <u>Saturatio</u> 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	ore clay); - = light (les ndicators (2 or more stained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5)	required) MLRA 1, 2,) nagery (C9) R A)
Image: Sector Control of	silt; C = clay; L s: f one required; c	theck all that apply) Water-Stained I 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rea Stunted or Strea Other (Explain i	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, an <u>X</u> Drainage Dry-Sea <u>Saturatio</u> 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Image: Sector Control of	silt; C = clay; L s: f one required; c	theck all that apply) Water-Stained I 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rea Stunted or Strea Other (Explain i	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, an <u>X</u> Drainage Dry-Sea <u>Saturatio</u> 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Image: Sestrictive Layer (if present): Type: Depth (inches): Image: Semarks: S = sand; Si = ItyDROLOGY Vetland Hydrology Indicator trimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Tield Observations:	silt; C = clay; L s: f one required; c	water-Stained I Uter-Stained I 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Stunted or Stree Other (Explain i	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary II</u> - <u>Water-S</u> 4A, an <u>X</u> Drainage Dry-Sea <u>Saturatio</u> 3) <u>X</u> Geomor Shallow FAC-Ne Raised A	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) nagery (C9) R A)
Restrictive Layer (if present): Type: Depth (inches): Remarks: S = sand; Si = HYDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?	silt; C = clay; L s: <u>f one required; c</u> al Imagery (B7) ave Surface (B8)	theck all that apply) Water-Stained I 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Stunted or Stree Other (Explain i	Leaves (B9) (ex I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1) in Remarks)	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo	ore clay); - = light (les ndicators (2 or more itained Leaves (B9) (I nd 4B) e Patterns (B10) ison Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR	required) MLRA 1, 2,) magery (C9) R A)
Restrictive Layer (if present): Type: Depth (inches): Remarks: S = sand; Si = HYDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) X Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Surface Water Present? Water Table Present?	silt; C = clay; L s: <u>f one required; c</u> al Imagery (B7) ave Surface (B8) Yes	Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Red Stunted or Streat Other (Explain in No X No X	Leaves (B9) (exc I 4B)) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) duction in Tilled ssed Plants (D1) in Remarks) Depth (inches):	; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo	ndicators (2 or more stained Leaves (B9) (nd 4B) e Patterns (B10) son Water Table (C2 on Visible on Aerial Ir phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LR eave Hummocks (D7)	required) MLRA 1, 2,) magery (C9) R A)

Project/Site: N	ledford Urban R	eserve LWI		City/County:	Medford UR	/ Jackson	Sampling Date: 4/22/2	2015
Applicant/Owner:	City of Medford	b				State: OR	Sampling Point:	P21
Investigator(s):	Clare Kenny, T	aya K. MacLe	an	Section, T	ownship, Rang	e: Section 5, T38S, R		
Landform (hillslope	, terrace, etc.):	terrace			Local relief	(concave, convex, none):	concave Slope (%): <3
Subregion (LRR):	A, Northwest F	orests and Co	oast	Lat: 42.293580	Lon	g: <u>-122.849500</u>	Datum: NAD	1983
Soil Map Unit Nar	ne: <u>Unit</u>	127A: Medfor	rd silty clay loan	n		NWI	classification: none	
Are climatic / hydr	rologic condition	s on the site ty	pical for this tim	ne of year?	Ye		(If no, explain in I	
Are Vegetation	,Soi		, or Hydrology	significantly			ances" present? Yes	X No
Are Vegetation	,Soi		, or Hydrology	naturally pro			answers in Remarks.)	
				• • •	point locat	ions, transects,	important features	s, etc.
Hydrophytic Vege			Yes X	No	Is the Samp	lod Aroa		
Hydric Soil Prese			Yes X	No	within a We	tion d O	V	
Wetland Hydrolog			Yes X	No		Yes	X No	
Precipitation prior Remarks:	to fieldwork:	Dry spring e	valuation					
	cieves hydrolog	y from surroun	iding topograph	y and surface flow.	May have subsi	urface connection to V	V19.	
				•				
VEGETATION								
Trop Stratum	(Dist size) 20	N	Absolute	Dominant	Indicator	Dominance Test v		
Tree Stratum	(Plot size: <u>30</u>	<u>) r)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Domina		
1. 2.						That Are OBL, FAC	CW, or FAC: 3	(A)
3.								
4						Total Number of De		
+. 			<u> </u>			Species Across All	Strata: 3	(B)
Sapling/Shrub Str	atum (Dla	toizo: 10'r)0%	= Total Cover				
<u>3 apiing/Siriub Sir</u> 1.	<u>atum</u> (Pio	t size: <u>10' r</u>	_)			Percent of Domina		
2.						That Are OBL, FAC		(A/B)
3.						Prevalence Index Total % Cove		
4.						OBL species		50
5						FACW species	<u> </u>	60
	(Distaize: E'	r)	0%	= Total Cover		FAC species		75
Herb Stratum	(Plot size: <u>5'</u>	<u> </u>				FACU species		20
1. Eleocharis pa			50%	Yes	OBL	UPL species		0(D)
2. Carex praegr			30%	Yes	FACW			205 (B)
3. Ranunculus r			20%	Yes	FAC	Prevalence Inde		<u> 66</u>
4. <u>Acmispon an</u>			5%	No	FACU	Hydrophytic Vege		
	arundinaceus		5%	No	FAC		for Hydrophytic Vegetati	ion
6.						X 2 - Dominance		
7.						X 3 - Prevalence		
8.						· •	cal Adaptations ¹ (Provide	
9.							narks or on a separate s	heet)
10.							on-Vascular Plants ¹	
11							/drophytic Vegetation ¹ (I	
NAC 1 N/C 0/ /	(Plo	t size: <u>10' r</u>	110%	= Total Cover			c soil and wetland hydro	logy must
Woody Vine Strat 1.	<u>um</u> (110	1 3120. <u>10 1</u>	_/			be present.		
2.			•			Hydrophytic		
			0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground in	Herb Stratum	0%		-		Present?		
Remarks:						Enter	ed by: tkm QC by: 0	mw
Stunted vegetatio	n.					Enter		

			Redox Fe	alures				
(inches) Color (mo	oist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	
0-7 10YR 2	/1 100	_				С	Dense clay.	
7-16 10YR 2	/1 95	5YR 3/3	3	С	М	С	_	
		10YR 3/2	2	С	М			
							_	
							_	
						· · · · · · · · · · · · · · · · · · ·		
ype: C=Concentration, D=	Depletion, RM=R	educed Matrix CS=Cove	ered or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=	Matrix.	
ydric Soil Indicators: (Ap	plicable to all LR	Rs, unless otherwise I	noted.)		Indicators f	or Problematic Hyd	dric Soils ³ :	
Histosol (A1)		Sandy Redox (S5	5)		2 cm Mu	uck (A10)		
Histic Epipedon (A2)		Stripped Matrix (S	S6)		Red Parent Material (TF2)			
Black Histic (A3)		Loamy Mucky Mi	neral (F1) (exc	ept MLRA 1)	Very Shallow Dark Surface (TF12)			
Hydrogen Sulfide (A4)		Loamy Gleyed M	atrix (F2)	-		Explain in Remarks)		
Depleted Below Dark Su	urface (A11)	Depleted Matrix (. ,		
Thick Dark Surface (A12		X Redox Dark Surfa			³ Indicators of	of hydrophytic vegeta	ation and	
Sandy Mucky Mineral (S			Depleted Dark Surface (F7)			wetland hydrology must be present,		
Sandy Gleyed Matrix (S	,	Redox Depressions (F8)			unless disturbed or problematic.			
	0							
Type: Depth (inches):		= loam or loamy; co = o	coarse; f = fine	•		ore clay); - = light (le		
Type: Depth (inches): emarks: S = sand; S	i = silt; C = clay; L	= loam or loamy; co = o	coarse; f = fine	•				
Type: Depth (inches): emarks: S = sand; S IYDROLOGY /etland Hydrology Indicat	i = silt; C = clay; L ors:		coarse; f = fine	•	⊦ = heavy (m	ore clay); - = light (le	ess clay)	
Type: Depth (inches): emarks: S = sand; S IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum	i = silt; C = clay; L ors:	check all that apply)		; vf = very fine; -	+ = heavy (m - <u>Secondary I</u>	ore clay); - = light (le	ess clay)	
Type: Depth (inches): emarks: S = sand; S IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1)	i = silt; C = clay; L ors:	check all that apply)	eaves (B9) (ex e	; vf = very fine; -	⊦ = heavy (m - <u>Secondary I</u> Water-S	ore clay); - = light (le ndicators (2 or more stained Leaves (B9)	ess clay)	
Type: Depth (inches): emarks: S = sand; S IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2)	i = silt; C = clay; L ors:	check all that apply) Water-Stained Le 1, 2, 4A, and 4	eaves (B9) (ex e	; vf = very fine; -	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a	ore clay); - = light (le ndicators (2 or more stained Leaves (B9) nd 4B)	ess clay)	
Type: Depth (inches): emarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	i = silt; C = clay; L ors:	check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	eaves (B9) (ex o 1B)	; vf = very fine; -	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag	ndicators (2 or more stained Leaves (B9) nd 4B) e Patterns (B10)	ess clay)	
Type: Depth (inches): emarks: S = sand; S IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	i = silt; C = clay; L ors: of one required; (<u>check all that apply)</u> <u>Water-Stained Le</u> 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr	eaves (B9) (ex o IB) rates (B13)	; vf = very fine; -	+ = heavy (m - <u>Secondary I</u> Water-S Drainag Dry-Sea	ore clay); - = light (le ndicators (2 or more stained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C	ess clay) e required) (MLRA 1, 2,	
Type: Depth (inches): Temarks: S = sand; S TYDROLOGY Vetland Hydrology Indicat rrimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	i = silt; C = clay; L ors: of one required; (<u>check all that apply)</u> <u>Water-Stained Le</u> 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	eaves (B9) (ex o 1B) rates (B13) e Odor (C1)	; vf = very fine; -	+ = heavy (m <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea Saturatio	ore clay); - = light (le ndicators (2 or more stained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial	ess clay) e required) (MLRA 1, 2,	
Type: Depth (inches): Cemarks: S = sand; S Cemarks: Cemarks:	i = silt; C = clay; L ors: of one required; (check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) (ex IB) ates (B13) Odor (C1) oheres along Li	; vf = very fine; -	+ = heavy (m <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea Saturation X Geomor	ore clay); - = light (le ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2)	ess clay) e required) (MLRA 1, 2,	
Type: Depth (inches): temarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	i = silt; C = clay; L ors: of one required; (<u>check all that apply)</u> Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red	eaves (B9) (ex IB) eates (B13) e Odor (C1) oheres along Li uced Iron (C4)	; vf = very fine; - cept MLRA	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea Saturatio X Geomor Shallow	ore clay); - = light (le ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) ison Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3)	ess clay) e required) (MLRA 1, 2,	
Type: Depth (inches): temarks: S = sand; S IYDROLOGY Vetland Hydrology Indicat trimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	i = silt; C = clay; L ors: of one required;	<u>check all that apply</u> Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	eaves (B9) (ex IB) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (m Secondary I Water-S 4A, a Drainag Dry-Sea Saturation X Geomor Shallow X FAC-Ne	ore clay); - = light (le ndicators (2 or more stained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5)	ess clay) e required) (MLRA 1, 2, 2) Imagery (C9)	
Type: Depth (inches): emarks: S = sand; S IYDROLOGY /etland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	i = silt; C = clay; L ors: n of one required; (check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (ex IB) ates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea Saturatio X Geomor Shallow X FAC-Ne Raised A	ore clay); - = light (le ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) ison Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI	ess clay) e required) (MLRA 1, 2, :2) Imagery (C9) RR A)	
Type: Depth (inches): Cemarks: S = sand; S Contemporation S = sand; S Conte	i = silt; C = clay; L ors: of one required; of of one required; of of one required; of one required; one	check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex IB) ates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea Saturatio X Geomor Shallow X FAC-Ne Raised A	ore clay); - = light (le ndicators (2 or more stained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5)	e required) (MLRA 1, 2, (2) Imagery (C9) RR A)	
Type: Depth (inches): Cemarks: S = sand; S Cemarks: S = sand; S = s	i = silt; C = clay; L ors: of one required; of of one required; of of one required; of one required; one	check all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex IB) ates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1)	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea Saturatio X Geomor Shallow X FAC-Ne Raised A	ore clay); - = light (le ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) ison Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LI	e required) (MLRA 1, 2, (2) Imagery (C9) RR A)	
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Type: Depth (inches): Cemarks: S = sand; S TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ac Sparsely Vegetated Cor Field Observations: Surface Water Present?	i = silt; C = clay; L ors: n of one required; (prial Imagery (B7) ncave Surface (B8 Yes	<u>check all that apply</u> Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in)	eaves (B9) (ex IB) eates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1) Remarks) epth (inches):	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)) (LRR A)	+ = heavy (m Secondary I Water-S 4A, a Drainag Dry-Sea Saturation X Geomor Shallow X FAC-Ne Raised A Frost-He	ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (L1 eave Hummocks (D7	ess clay) erequired) (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (C9) RR A) 7)	
Type: Depth (inches): Remarks: S = sand; S TYDROLOGY Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor Sield Observations: Surface Water Present? Water Table Present?	i = silt; C = clay; L ors: <u>of one required;</u> <u>of one required;</u>) prial Imagery (B7) ncave Surface (B8 Yes Yes	check all that apply) Water-Stained Letter 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in) No X No X	eaves (B9) (ex iB) eaves (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1) Remarks) epth (inches): epth (inches):	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)) (LRR A) ->16	+ = heavy (m Secondary I Water-S 4A, a Drainag Dry-Sea Saturation X Geomor Shallow X FAC-Ne Raised A Frost-He	ore clay); - = light (le ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) ison Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (Li eave Hummocks (D7) d Hydrology Preser	ess clay) erequired) (MLRA 1, 2, 2) Imagery (C9) RR A) 7)	
Depth (inches): Remarks: S = sand; S HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae	i = silt; C = clay; L ors: n of one required; (prial Imagery (B7) ncave Surface (B8 Yes	check all that apply) Water-Stained Letter 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in) No X No X	eaves (B9) (ex IB) eates (B13) e Odor (C1) oheres along Li uced Iron (C4) uction in Tilled sed Plants (D1) Remarks) epth (inches):	; vf = very fine; - cept MLRA ving Roots (C3) Soils (C6)) (LRR A)	+ = heavy (m Secondary I Water-S 4A, a Drainag Dry-Sea Saturation X Geomor Shallow X FAC-Ne Raised A Frost-He	ndicators (2 or more itained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C on Visible on Aerial phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (L1 eave Hummocks (D7	ess clay) erequired) (MLRA 1, 2, (MLRA 1, 2, (MLRA 1, 2, (C9) RR A) 7)	

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

Project/Site: N	ledford Urban Reserve LW	l	City/C	County: Medford	UR / Jackson	Sampling Date:	4/22/2015
Applicant/Owner:	City of Medford				State: OR	Sampling P	
Investigator(s):	Clare Kenny, Taya K. Ma	cLean	Sec	ction, Township, F	Range: Section 35, T37S, I	R2W	
Landform (hillslope					elief (concave, convex, none):		lope (%):
Subregion (LRR):	A, Northwest Forests and	Coast	Lat: 42.31		Long: -122.904200		NAD 1983
Soil Map Unit Nar		ory silty clay loam (·	classification: nor	
•	rologic conditions on the sit				Yes X No		ain in Remarks)
Are Vegetation	,Soil	, or Hydrology	•	cantly disturbed?	Are "Normal Circumsta		
Are Vegetation	,Soil	, or Hydrology		ally problematic?	(If needed, explain any	answers in Rema	arks.)
SUMMARY O	F FINDINGS – Attacl	h site map show	wing sam	pling point lo	ocations, transects, i	mportant feat	tures, etc.
Hydrophytic Vege	etation Present?	Yes	No X	<u></u>			
Hydric Soil Prese	ent?	Yes	No X	Is the S	ampled Area		
Wetland Hydrolog	gy Present?	Yes	No X	within a	a Wetland? Yes	No	X
Precipitation prior Remarks: Decomissioned p	r to fieldwork: Dry sprin ear orchard. No longer irriga	g evaluation ated.					
VEGETATION	N						
		Absolute	Domi	nant Indicato	or Dominance Test w	/orksheet:	
Tree Stratum	(Plot size: <u>30' r</u>)	<u>% Cover</u>	<u>Spec</u>	ies? Status	Number of Domina	nt Species	
1.					That Are OBL, FAC	W, or FAC:	1 (A)
2.							
3.					Total Number of Do	ominant	
4.					Species Across All	Strata:	3 (B)
			= Total Cove	ər			
Sapling/Shrub Str	ratum (Plot size: 10	<u>' r)</u>			Percent of Dominar	nt Species	
1. Rubus armer	niacus	20%	Ye	s FACU	That Are OBL, FAC	W, or FAC:	<u>33%</u> (A/B)
2.					Prevalence Index		
3.					Total % Cover	of: Multiply by:	<u>.</u>
4.					OBL species	0 x 1 =	0
5.					FACW species	20 x 2 =	40
		20%	= Total Cove	ər	FAC species	8 x 3 =	24
Herb Stratum	(Plot size: <u>5' r</u>)				FACU species	26 x 4 =	104
1. Erodium cicu	ıtarium	25%	Ye	s NOL	UPL species	25 x 5 =	125
2. Phalaris arun	ndinacea	20%	Ye	s FACW	/ Column Totals:	79 (A)	293 (B)
3. Dipsacus full	lonum	8%	N	o FAC	Prevalence Inde	x = B/A =	<u>3.71</u>
4. Plantago land	ceolata	4%	N	o FACU	Hydrophytic Vege	tation Indicators	:
5. Lactuca serri	iola	2%	N	o FACU	1 - Rapid Test f	for Hydrophytic Ve	egetation
6.					2 - Dominance	Test is >50%	
7.					3 - Prevalence	Index is ≤3.0 ¹	
8.					4 - Morphologic	al Adaptations ¹ (F	Provide supporting
9.					· ·	arks or on a sepa	
10.					5 - Wetland No	n-Vascular Plants	1
11.					Problematic Hv	drophytic Vegetat	tion ¹ (Explain)
Woody Vine Strat	tum (Plot size: <u>10</u>		= Total Cove	ər	¹ Indicators of hydric be present.		
1.					_		
2.					Hydrophytic		
		0%	= Total Cove	ər	Vegetation	Yes No	<u>X</u>
% Bare Ground in	Herb Stratum 419	6			Present?		
Remarks:					Entere	ed by: tkm QC	C by: cmw

Dominated by non-hydric vegetation and differs slightly from adjacent upland vegetation community.

(inches) Color (mo		_	Redox Fe				
	oist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-12 10YR 3	/2 100					CL	
							_
Type: C=Concentration, D=	Depletion, RM=R	educed Matrix CS=Cov	vered or Coated	Sand Grains.	² Location: F	PL=Pore Lining, M=	Matrix.
ydric Soil Indicators: (Ap	plicable to all LR	Rs, unless otherwise	noted.)		Indicators for	or Problematic Hyd	ric Soils ³ :
Histosol (A1)		Sandy Redox (S	S5)		2 cm Mu	ck (A10)	
Histic Epipedon (A2)		Stripped Matrix	(S6)		Red Pare	ent Material (TF2)	
Black Histic (A3)		Loamy Mucky N	lineral (F1) (exc	ept MLRA 1)	Very Sha	llow Dark Surface (*	TF12)
Hydrogen Sulfide (A4)		Loamy Gleyed M	Matrix (F2)		Other (E)	plain in Remarks)	
Depleted Below Dark Su	urface (A11)	Depleted Matrix				,	
Thick Dark Surface (A12		Redox Dark Sur	face (F6)		³ Indicators of	hydrophytic vegeta	tion and
Sandy Mucky Mineral (S		Depleted Dark S			wetland hyd	drology must be pre	sent,
Sandy Gleyed Matrix (Se		Redox Depressi			-	urbed or problemation	
	A.						
Type: Depth (inches): Remarks: S = sand; Si		. = loam or loamy; co =	coarse; f = fine;		lydric Soil Pres ; + = heavy (mo		No X ss clay)
Type: Depth (inches): Remarks: S = sand; Si n mapped hydric soil.		. = loam or loamy; co =	coarse; f = fine;		•		
Type: Depth (inches): emarks: S = sand; Si mapped hydric soil.	= silt; C = clay; L	_ = loam or loamy; co =	coarse; f = fine;		•		
Type: Depth (inches): Remarks: S = sand; Si n mapped hydric soil. HYDROLOGY Vetland Hydrology Indicat	i = silt; C = clay; L ors:		coarse; f = fine;		; + = heavy (mo	re clay); - = light (les	ss clay)
Type: Depth (inches): Cemarks: S = sand; Si mapped hydric soil. HYDROLOGY Vetland Hydrology Indicat	i = silt; C = clay; L ors:	check all that apply)		; vf = very fine	; + = heavy (mo <u>Secondary In</u>	re clay); - = light (les dicators (2 or more	ss clay)
Type: Depth (inches): Cemarks: S = sand; Si mapped hydric soil. HYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)	i = silt; C = clay; L ors:	check all that apply)	Leaves (B9) (exc	; vf = very fine	; + = heavy (mo <u>Secondary In</u> Water-St	re clay); - = light (les dicators (2 or more ained Leaves (B9) (ss clay)
Type: Depth (inches): mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Vetland Hydrology Indicat Surface Water (A1) High Water Table (A2)	i = silt; C = clay; L ors:	<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and	_eaves (B9) (exc 4 B)	; vf = very fine	; + = heavy (mo <u>Secondary In</u> Water-St 4A, an	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B)	ss clay)
Type: Depth (inches): Temarks: S = sand; Si mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	i = silt; C = clay; L ors:	<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11)	Leaves (B9) (exc 4 B)	; vf = very fine	; + = heavy (mo <u>Secondary In</u> Water-St 4A, an Drainage	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10)	ss clay) required) MLRA 1, 2,
Type: Depth (inches): mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	i = silt; C = clay; L ors:	<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb	Leaves (B9) (exc 4B) prates (B13)	; vf = very fine	; + = heavy (mo <u>Secondary In</u> <u>Water-St</u> 4A, an <u>Drainage</u> Dry-Seas	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2	<u>required)</u> MLRA 1, 2, 2)
Type: Depth (inches): temarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Vetland Hydrology Indicat Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	i = silt; C = clay; L ors:	<u>check all that apply)</u> <u>Water-Stained L</u> 1, 2, 4A, and Salt Crust (B11) <u>Aquatic Inverteb</u> Hydrogen Sulfid	Leaves (B9) (exc 4B) prates (B13) le Odor (C1)	; vf = very fine	; + = heavy (mo <u>Secondary In</u> <u>Water-St</u> 4A, an <u>Drainage</u> Dry-Seas Saturatio	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial II	<u>required)</u> MLRA 1, 2, 2)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	i = silt; C = clay; L ors:	<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos	Leaves (B9) (exc 4B) porates (B13) le Odor (C1) spheres along Liv	; vf = very fine	; + = heavy (mo ; + = heavy (mo 	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial In bhic Position (D2)	<u>required)</u> MLRA 1, 2, 2)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TyDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	i = silt; C = clay; L ors:	<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4)	; vf = very fine	; + = heavy (mo <u>Secondary In</u> <u>Water-St</u> <u>4A, an</u> <u>Drainage</u> <u>Dry-Seas</u> <u>Saturatio</u> <u>3)</u> <u>Geomorp</u>	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) con Water Table (C2 n Visible on Aerial In blic Position (D2) Aquitard (D3)	<u>required)</u> MLRA 1, 2, 2)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	i = silt; C = clay; L ors: n of one required;	<u>check all that apply)</u> Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio 3) Geomorp Shallow <i>I</i> FAC-Neu	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) ttral Test (D5)	ss clay) <u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	i = silt; C = clay; L ors: of one required;	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverted Hydrogen Sulfid Oxidized Rhizos Presence of Rea Recent Iron Rea Stunted or Stres	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo 	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) trral Test (D5) nt Mounds (D6) (LR	ss clay) required) MLRA 1, 2, 2) magery (C9) R A)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TyDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae	i = silt; C = clay; L ors: of one required;)) vrial Imagery (B7)	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Invertee Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Stunted or Stres Other (Explain in	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo 	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) ttral Test (D5)	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor	i = silt; C = clay; L ors: of one required;)) vrial Imagery (B7)	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Invertee Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Stunted or Stres Other (Explain in	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo 	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) trral Test (D5) nt Mounds (D6) (LR	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): mapped hydric soil. TyDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor ield Observations:	i = silt; C = clay; L ors: of one required;)) vrial Imagery (B7)	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Invertee Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Stunted or Stres Other (Explain in	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo 	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) trral Test (D5) nt Mounds (D6) (LR	ss clay) required) MLRA 1, 2, 2) magery (C9) R A)
Type: Depth (inches): Temarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor Surface Water Present?	i = silt; C = clay; L ors: of one required;)) vrial Imagery (B7)	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverted: Hydrogen Sulfid Oxidized Rhizos Presence of Rea Recent Iron Rea Stunted or Stres Other (Explain in 3)	Leaves (B9) (exc 4B) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo 	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) trral Test (D5) nt Mounds (D6) (LR	<u>required)</u> MLRA 1, 2, 2) magery (C9)
Type: Depth (inches): Remarks: S = sand; Sin mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor Sield Observations: Surface Water Present?	i = silt; C = clay; L ors: n of one required; n of one required;) erial Imagery (B7) ncave Surface (B8	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverted Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Stunted or Stress Other (Explain in 3) No X	Leaves (B9) (exc 4B) orates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1) n Remarks)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6)	; + = heavy (mo ; + = heavy (mo Water-St 4A, an Drainage Dry-Seas Saturatio 3) Geomorp Shallow / FAC-Neu Raised A Frost-Hea	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) trral Test (D5) nt Mounds (D6) (LR	<u>required)</u> MLRA 1, 2, 2) magery (C9) 2 R A)
Depth (inches): Remarks: S = sand; Si n mapped hydric soil. TYDROLOGY Vetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae	i = silt; C = clay; L ors: of one required; of one required;) wrial Imagery (B7) acave Surface (B8 Yes	check all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverted: Hydrogen Sulfid Oxidized Rhizos Presence of Reg Recent Iron Reg Stunted or Stress Other (Explain in 3) No X No X	Leaves (B9) (exc 4B) orates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1) n Remarks)	; vf = very fine cept MLRA ving Roots (C3 Soils (C6) (LRR A)	; + = heavy (mo ; + = heavy (mo Water-St 4A, an Drainage Dry-Seas Saturatio 3) Geomorp Shallow / FAC-Neu Raised A Frost-Hea	re clay); - = light (les dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial In whic Position (D2) Aquitard (D3) ttral Test (D5) nt Mounds (D6) (LR ave Hummocks (D7	<u>required)</u> MLRA 1, 2, 2) magery (C9) 2 R A)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region City/County: Medford UR / Jackson Sampling Date: 4/22/2015 Medford Urban Reserve LWI Project/Site: Applicant/Owner: City of Medford State: OR Sampling Point: P23 Clare Kenny, Taya K. MacLean Section, Township, Range: Section 32, T36S, R1W Investigator(s): Local relief (concave, convex, none): none Landform (hillslope, terrace, etc.): terrace Slope (%): 0 Subregion (LRR): A, Northwest Forests and Coast Lat: 42.396650 Long: -122.852600 Datum: NAD 1983 Soil Map Unit Name: Unit 33: Coker clay NWI classification: none Are climatic / hydrologic conditions on the site typical for this time of year? Yes Х No (If no, explain in Remarks) ____,Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Are Vegetation ,Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Х Hydrophytic Vegetation Present? No Yes Is the Sampled Area Х Hydric Soil Present? Yes No within a Wetland? Х Wetland Hydrology Present? Yes No Х Yes Precipitation prior to fieldwork: Dry spring evaluation Remarks: Flood irrigated hay pasture. VEGETATION Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: <u>30' r</u>) % Cover Species? Status Number of Dominant Species 1. That Are OBL, FACW, or FAC: 2 (A) 2. 3. Total Number of Dominant 4. Species Across All Strata: 4 (B) 0% = Total Cover Sapling/Shrub Stratum (Plot size:__10' r__) Percent of Dominant Species 1. 50% That Are OBL, FACW, or FAC: (A/B) 2. Prevalence Index worksheet: 3. Total % Cover of: Multiply by: 4. OBL species 0 x 1 = 0 5. FACW species 0 x 2 = 0 FAC species 40 x 3 = 0% = Total Cover 120 Herb Stratum (Plot size: 5' r) FACU species 15 x 4 = 60 1. UPL species 45 x 5 = Geranium dissectum 20% Yes NOL 225 2. (B) Column Totals: Vicia hirsuta Yes 100 (A) 405 20% NOL 3. Prevalence Index = B/A = 4.05 Schedonorus arundinaceus 20% Yes FAC 4. Poa species 20% Yes FAC ? Hydrophytic Vegetation Indicators: 5. 1 - Rapid Test for Hydrophytic Vegetation Plantago lanceolata FACU 15% No 6. 2 - Dominance Test is >50% Veronica persica NOL 5% No 7. 3 - Prevalence Index is ≤3.0¹ 8. 4 - Morphological Adaptations¹ (Provide supporting 9. data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants¹ 11. Problematic Hydrophytic Vegetation¹ (Explain) 100% = Total Cover Indicators of hydric soil and wetland hydrology must (Plot size: <u>10' r</u>) Woody Vine Stratum be present. 1. 2. Hydrophytic = Total Cover Vegetation Yes No Х 0% Present? % Bare Ground in Herb Stratum 0% Entered by: tkm QC by: cmw

Remarks: * = Assumed FAC.

Poa assumed FAC. Vegetation highly disturbed due to historical land use.

Depth	Matrix		Redox Fea	atures			
(inches) Color (r	noist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12 10YR						С	Dense clay, roots
Type: C=Concentration, I	D=Depletion, RM=F	Reduced Matrix CS=Cov	vered or Coated	Sand Grains.	² Location: F	PL=Pore Lining, M=I	Matrix.
Hydric Soil Indicators: (A	pplicable to all LF	RRs, unless otherwise	e noted.)			or Problematic Hyd	
Histosol (A1)		Sandy Redox (S	S5)		2 cm Mu	ck (A10)	
Histic Epipedon (A2)		Stripped Matrix				ent Material (TF2)	
Black Histic (A3)			/ineral (F1) (exc e	ept MLRA 1)		llow Dark Surface (TF12)
Hydrogen Sulfide (A4)		Loamy Gleyed I		,		kplain in Remarks)	,
Depleted Below Dark 3		Depleted Matrix					
Thick Dark Surface (A		Redox Dark Sur			³ Indicators of	hydrophytic vegeta	tion and
Sandy Mucky Mineral	,	Depleted Dark S	()			drology must be pre	
Sandy Gleyed Matrix (. ,	Redox Depressi				urbed or problemation	-
Restrictive Layer (if prese							6.
Type: Depth (inches):					ydric Soil Pres		<u>No X</u>
Depth (inches): Remarks: S = sand;	Si = silt; C = clay; I	_ = loam or loamy; co =	coarse; f = fine;		•		
Depth (inches): Remarks: S = sand; HYDROLOGY		_ = loam or loamy; co =	: coarse; f = fine;		•		
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indic	ators:		coarse; f = fine;		+ = heavy (mo	re clay); - = light (le	ss clay)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu	ators:	check all that apply)		vf = very fine;	+ = heavy (mo <u>Secondary In</u>	re clay); - = light (le	ss clay)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1)	ators: Im of one required;	check all that apply)	_eaves (B9) (exc	vf = very fine;	+ = heavy (mo - <u>Secondary In</u> Water-St	re clay); - = light (le dicators (2 or more ained Leaves (B9) (ss clay)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2)	ators: Im of one required;	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and	_eaves (B9) (exc 4 B)	vf = very fine;	+ = heavy (mo _ <u>Secondary In</u> Water-St 4A, an	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B)	ss clay)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indicators (minimu Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)	ators: Im of one required;	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and Salt Crust (B11)	_eaves (B9) (exc 4B)	vf = very fine;	+ = heavy (mo <u>Secondary In</u> Water-St Drainage	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10)	ss clay) <u>required)</u> (MLRA 1, 2,
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ators: Im of one required;	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and Salt Crust (B11) Aquatic Inverted	Leaves (B9) (exc 4B)) prates (B13)	vf = very fine;	+ = heavy (mo <u>Secondary In</u> <u>Water-St</u> 4A, an <u>Drainage</u> Dry-Seas	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ators: Im of one required;	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and Salt Crust (B11) Aquatic Inverted Hydrogen Sulfid	Leaves (B9) (exc 4B)) prates (B13) le Odor (C1)	vf = very fine; ept MLRA	+ = heavy (mo <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial I	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ators: um of one required;) 2)	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos	Leaves (B9) (exc 4B)) prates (B13) le Odor (C1) spheres along Liv	vf = very fine; ept MLRA	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial I phic Position (D2)	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4	ators: um of one required;) 2)	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Re	Leaves (B9) (exc 4B)) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4)	vf = very fine; ept MLRA	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio Saturatio Shallow /	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial I phic Position (D2) Aquitard (D3)	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indicators (minimu Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	ators: <u>um of one required;</u>) 2)	<u>check all that apply)</u> Water-Stained I 1, 2, 4A, and Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Re Recent Iron Rec	Leaves (B9) (exc 4B)) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S	vf = very fine; ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo + = heavy (mo <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio Saturatio Shallow <i>I</i> FAC-Neu	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial I bhic Position (D2) Aquitard (D3) ttral Test (D5)	<u>required)</u> (MLRA 1, 2, 2) magery (C9)
Depth (inches): Remarks: S = sand; HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E	ators: um of one required;) 2)) 36)	check all that apply) Water-Stained I 1, 2, 4A, and Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Re Recent Iron Rec Stunted or Stres	Leaves (B9) (exc 4B)) prates (B13) le Odor (C1) spheres along Liv duced Iron (C4) duction in Tilled S ssed Plants (D1)	vf = very fine; ept MLRA ring Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio Saturatio Shallow / FAC-Neu Raised A	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) son Water Table (C2 n Visible on Aerial I bhic Position (D2) Aquitard (D3) utral Test (D5) nt Mounds (D6) (LF	<u>required)</u> (MLRA 1, 2, 2) magery (C9)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region City/County: Medford UR / Jackson Sampling Date: 4/23/2015 Medford Urban Reserve LWI Project/Site: Applicant/Owner: City of Medford State: OR Sampling Point: P24 Clare Kenny, Taya K. MacLean Section, Township, Range: Section 32, T36S, R1W Investigator(s): Local relief (concave, convex, none): concave Landform (hillslope, terrace, etc.): slight depression Slope (%): <3 Subregion (LRR): A, Northwest Forests and Coast Lat: 42.397.86 Long: -122.847600 Datum: NAD 1983 Soil Map Unit Name: Unit 33: Coker clay NWI classification: none No Are climatic / hydrologic conditions on the site typical for this time of year? Yes Х (If no, explain in Remarks) , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation ,Soil Are Vegetation ,Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Х Yes No Is the Sampled Area Hydric Soil Present? Х Yes No within a Wetland? Х Wetland Hydrology Present? Yes No Х Yes Precipitation prior to fieldwork: Dry spring evaluation Remarks: Flood irrigated pasture. Sample collected in area of low topography. VEGETATION Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: <u>30' r</u>) % Cover Species? Status Number of Dominant Species 1. That Are OBL, FACW, or FAC: 3 (A) 2. 3. Total Number of Dominant 4. Species Across All Strata: 3 (B) 0% = Total Cover Sapling/Shrub Stratum (Plot size:__10' r__) Percent of Dominant Species 1. 100% (A/B) That Are OBL, FACW, or FAC: 2. Prevalence Index worksheet: 3. Total % Cover of: Multiply by: 4. OBL species 0 x 1 = 0 5. FACW species 20 x 2 = 40 FAC species 75 x 3 = 225 0% = Total Cover Herb Stratum (Plot size: <u>5' r</u>) FACU species 0 x 4 = 0 1. FAC UPL species x 5 = Schedonorus arundinaceus 40% Yes 0 0 2. (B) Column Totals: 30% Yes FAC 95 (A) 265 Alopecurus pratensis 3. Prevalence Index = B/A = Carex praegracilis 2.79 20% Yes FACW 4. Ranunculus repens 5% No FAC Hydrophytic Vegetation Indicators: 5. 1 - Rapid Test for Hydrophytic Vegetation 6. X 2 - Dominance Test is >50% 7. X 3 - Prevalence Index is $\leq 3.0^{1}$ 8. 4 - Morphological Adaptations¹ (Provide supporting 9. data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants¹ 11. Problematic Hydrophytic Vegetation¹ (Explain) 95% Indicators of hydric soil and wetland hydrology must = Total Cover (Plot size: <u>10' r</u>) Woody Vine Stratum be present. 1. 2. Hydrophytic 0% = Total Cover Vegetation Yes Х No Present? % Bare Ground in Herb Stratum 5% Remarks: Entered by: tkm QC by: cmw

	Mat			Redox				
(inches)	Color (moist)	%	Color (moist	t) %	Type ¹	Loc ²	Texture	Remark
0-2	7.5YR 3/2	100					С	Many roots.
2-13	7.5YR 4/1	100					С	
Type: C=Concent	tration, D=Deple	tion, RM=Red	luced Matrix CS=	Covered or Coa	ted Sand Grains.	² Location:	PL=Pore Lining, M=	Matrix.
ydric Soil Indica	tors: (Applicab	le to all LRRs	s, unless otherv	vise noted.)		Indicators f	or Problematic Hyd	dric Soils ³ :
Histosol (A1)			Sandy Redo	ox (S5)		2 cm Mu	ıck (A10)	
Histic Epipedo	on (A2)		Stripped Ma	trix (S6)		Red Par	ent Material (TF2)	
Black Histic (A	(3)		Loamy Muc	ky Mineral (F1) (except MLRA 1)	Very Sha	allow Dark Surface	(TF12)
Hydrogen Sulf	ide (A4)		Loamy Gley	ed Matrix (F2)		Other (E	xplain in Remarks)	
Depleted Belov	w Dark Surface	(A11)	Depleted Ma	atrix (F3)				
Thick Dark Su	rface (A12)		Redox Dark	Surface (F6)		³ Indicators o	f hydrophytic vegeta	ation and
Sandy Mucky	Mineral (S1)		Depleted Da	ark Surface (F7)		wetland hy	drology must be pre	esent,
Sandy Gleyed	Matrix (S4)		Redox Depr	essions (F8)		unless dist	turbed or problemati	ic.
ense clay w/ dens			loam or loamy; (co = coarse; f = f		lydric Soil Pre ; + = heavy (mo	sent? Yes	No X
Depth (inches): temarks: S : bense clay w/ dens IYDROLOGY Vetland Hydrolog	se roots present	in 0-2" layer.				•		
Depth (inches): emarks: S : ense clay w/ dens IYDROLOGY Vetland Hydrolog	se roots present	in 0-2" layer.	eck all that apply	/)	line; vf = very fine	; + = heavy (mo	ore clay); - = light (le	ess clay)
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Depth (inches): emarks: S ense clay w/ dens IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta	se roots present gy Indicators: (minimum of on r (A1) able (A2)	in 0-2" layer.	eck all that apply	/) ed Leaves (B9) (line; vf = very fine	; + = heavy (mo <u>Secondary In</u> Water-S	ore clay); - = light (le	ess clay)
Depth (inches): emarks: S ense clay w/ dens IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3	se roots present gy Indicators: (minimum of on r (A1) able (A2) 3)	in 0-2" layer.	eck all that apply Water-Stain 1, 2, 4A, Salt Crust (F	/) ed Leaves (B9) (and 4B) 311)	line; vf = very fine	; + = heavy (mo <u>Secondary In</u> Water-S Drainage	ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10)	erequired) (MLRA 1, 2,
Depth (inches): emarks: S : ense clay w/ dens IYDROLOGY /etland Hydrolog rimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (se roots present gy Indicators: (minimum of on r (A1) able (A2) B1)	in 0-2" layer.	eck all that apply Water-Stain 1, 2, 4A, Salt Crust (I Aquatic Inve	/) ed Leaves (B9) (and 4B) 311) ertebrates (B13)	line; vf = very fine	; + = heavy (mo <u>Secondary In</u> Water-S 4A, an Drainage Dry-Sea	ore clay); - = light (le ndicators (2 or more tained Leaves (B9) nd 4B) e Patterns (B10) son Water Table (C	2) 2) 2) 2) 2) 2) 2) 2)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region

Project/Site: Medford Urban Reserve LWI	-	City/County:	Medford UR /	Jackson	Sampling Date: 4/23/	2015
Applicant/Owner: City of Medford				State: OR	Sampling Point:	P25
Investigator(s): Clare Kenny, Taya K. Mac	Lean	Section, T	ownship, Rang	e: Section 5, T37S, R	1W	
Landform (hillslope, terrace, etc.): terrace				(concave, convex, none):		(%): <3
Subregion (LRR): A, Northwest Forests and	Coast	Lat: 42.378590	 Lon	g: -122.852800	Datum: NAD	
	igan clay (hydric)				classification: none	
Are climatic / hydrologic conditions on the site	• • • • •	e of vear?	Ye		(If no, explain in	Remarks)
		significantly			nces" present? Yes	,
	, or Hydrology	naturally pro			answers in Remarks.)	
SUMMARY OF FINDINGS - Attack	site map sho	wing sampling	point locat	ions, transects, i	mportant feature	s, etc.
Hydrophytic Vegetation Present?	Yes X	No		i		
Hydric Soil Present?	Yes	No X	Is the Samp	led Area		
Wetland Hydrology Present?	Yes	No X	within a We	tland? Yes	No X	
	g evaluation					
Remarks:	-					
Slight ditch to south/downslope. Previously m	apped as wetland	(WD2007-0106). M	ay have receive	d hydrology from orch	ard irrigation which is n	WO
decommissioned. VEGETATION						
VEGETATION	Abaaluta	Dominant	Indiaatar	Dominance Test w		
Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant	Indicator			
1.	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominar		(4)
2.		· · · · · · · · · · · · · · · · · · ·		That Are OBL, FAC	CW, or FAC:1	(A)
3.						
4.		· <u> </u>		Total Number of Do		
4. 				Species Across All	Strata: 1	(B)
	0%	= Total Cover				
Sapling/Shrub Stratum (Plot size: 10	<u>r_)</u>			Percent of Dominar		
1.				That Are OBL, FAC	W, or FAC: <u>100%</u>	⊻ (A/B)
2.		. <u> </u>		Prevalence Index		
3.				Total % Cover	r of: <u>Multiply by:</u>	
4				OBL species	0 x 1 =	0
5				FACW species	0 x 2 =	0
	0%	= Total Cover		FAC species	87 x 3 =	261
<u>Herb Stratum</u> (Plot size: <u>5' r</u>)				FACU species	1 x 4 =	4
1. Conium maculatum	75%	Yes	FAC	UPL species	0 x 5 =	0
2. Dipsacus fullonum	10%	No	FAC	Column Totals:	88 (A)	265 (B)
3. Agrostis stolonifera	2%	No	FAC	Prevalence Inde	Bx = B/A = 3.0	01
4. Poa bulbosa	1%	No	FACU	Hydrophytic Veget	tation Indicators:	
5.				1 - Rapid Test f	for Hydrophytic Vegetat	tion
6.				X 2 - Dominance	Test is >50%	
7.				3 - Prevalence	Index is ≤3.0 ¹	
8.					al Adaptations ¹ (Provid	le supporting
9.					arks or on a separate s	
10.		·			n-Vascular Plants ¹	
11.					drophytic Vegetation ¹ (Explain)
	88%	= Total Cover		· · ·	c soil and wetland hydro	
Woody Vine Stratum (Plot size: <u>10</u>		= Total Cover		be present.	soli and wettand hydro	blogy must
1.				be present.		
2.				Hydrophytic		
	0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum 12%	6			Present?		
Remarks:				 Entere	ed by: tkm QC by:	cmw

Vegetation dominated by facultative species. Highly disturbed vegetation.

Depth	Matrix	`		Redox Fe	catures			
(inches) Colo	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark
0-16 10)YR 3/2	100					С	trace sands
								_
								_
Type: C=Concentratio	on, D=Depleti	on, RM=Red	duced Matrix CS=	Covered or Coated	d Sand Grains.	² Location: F	PL=Pore Lining, M=	Matrix.
lydric Soil Indicators	: (Applicable	e to all LRR	s, unless otherw	ise noted.)		Indicators for	or Problematic Hyd	dric Soils ³ :
Histosol (A1)			Sandy Redox	x (S5)		2 cm Muo	ck (A10)	
Histic Epipedon (A	2)		Stripped Mat	. ,			ent Material (TF2)	
Black Histic (A3)	,			y Mineral (F1) (exc	cept MLRA 1)		llow Dark Surface ((TF12)
Hydrogen Sulfide (A4)			ed Matrix (F2)	. ,		vplain in Remarks)	× ,
Depleted Below Da		A11)	Depleted Ma					
Thick Dark Surface		,	Redox Dark	. ,		³ Indicators of	hydrophytic vegeta	ation and
Sandy Mucky Mine				rk Surface (F7)		wetland hvo	drology must be pre	esent.
Sandy Gleyed Mat			Redox Depre			-	urbed or problemati	
Type: Depth (inches): Remarks: S = sa	nd; Si = silt; (C = clay; L =	loam or loamy; c	o = coarse; f = fine		ydric Soil Pres + = heavy (mo	re clay); - = light (le	No X
Depth (inches): Remarks: S = sa HYDROLOGY Wetland Hydrology In	dicators:							
Depth (inches): Remarks: S = sa	dicators:					+ = heavy (mo		ess clay)
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In	dicators: imum of one		neck all that apply		e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u>	re clay); - = light (le	e required)
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min	dicators: himum of one		neck all that apply) ed Leaves (B9) (ex	e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u>	re clay); - = light (le dicators (2 or more ained Leaves (B9) (e required)
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1	dicators: himum of one		neck all that apply) ed Leaves (B9) (ex nd 4B)	e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u> Water-St. 4A, an	re clay); - = light (le dicators (2 or more ained Leaves (B9) (e required)
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table (dicators: himum of one		neck all that apply Water-Staine 1, 2, 4A, a Salt Crust (B) ed Leaves (B9) (ex nd 4B)	e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B)	e required) (MLRA 1, 2,
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table (Saturation (A3)	dicators: imum of one) (A2)		eck all that apply Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su) ed Leaves (B9) (ex nd 4B) 11) rtebrates (B13) ilfide Odor (C1)	e; vf = very fine;	+ = heavy (mo <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10)	e <u>required)</u> (MLRA 1, 2,
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table (Saturation (A3) Water Marks (B1)	dicators: himum of one) (A2) s (B2)		eck all that apply Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su) ed Leaves (B9) (ex nd 4B) 11) rtebrates (B13)	e; vf = very fine;	+ = heavy (mo <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) con Water Table (C2	e <u>required)</u> (MLRA 1, 2,
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust	dicators: himum of one) (A2) s (B2)		Mater-Staine Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi) ed Leaves (B9) (ex nd 4B) 11) rtebrates (B13) ilfide Odor (C1)	e; vf = very fine;	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio) Geomorp	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial I	e <u>required)</u> (MLRA 1, 2,
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table of Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	dicators: himum of one) (A2) s (B2)		Mater-Staine Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I) ed Leaves (B9) (ex ind 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along L Reduced Iron (C4) Reduction in Tilled	e; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio) Geomorp Shallow A FAC-Neu	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial I whic Position (D2) Aquitard (D3) ttral Test (D5)	e <u>required)</u> (MLRA 1, 2, 2) Imagery (C9)
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Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table of Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack	dicators: imum of one) (A2) (B2) (B4) (B4) (B6) on Aerial Ima	required; ch	Water-Staine Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S) ed Leaves (B9) (ex ind 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along L Reduced Iron (C4) Reduction in Tilled tressed Plants (D1	e; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio) Geomorp Shallow A FAC-Neu Raised A	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial I whic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LF	e <u>required)</u> (MLRA 1, 2, 2) Imagery (C9)
Depth (inches): Remarks: S = sa HYDROLOGY Vetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table of Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate	dicators: imum of one) (A2) (B2) (B4) (B4) (B6) on Aerial Ima	required; ch	Water-Staine Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S) ed Leaves (B9) (ex ind 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along L Reduced Iron (C4) Reduction in Tilled tressed Plants (D1	e; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio) Geomorp Shallow A FAC-Neu Raised A	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial I whic Position (D2) Aquitard (D3) tral Test (D5) nt Mounds (D6) (LF	e <u>required)</u> (MLRA 1, 2, 2) Imagery (C9)
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Depth (inches): Remarks: S = sa HYDROLOGY Netland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table of Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate Field Observations: Surface Water Presen	dicators: imum of one) (A2) (B2) (B4) is (B6) on Aerial Ima d Concave S t? Yes	required; ch gery (B7) urface (B8)	Water-Staine 1, 2, 4A, a Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S Other (Explained No X) ed Leaves (B9) (ex and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along L Reduced Iron (C4) Reduced Iron (C4) Reduction in Tilled tressed Plants (D1 in in Remarks) Depth (inches):	e; vf = very fine; cept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo - <u>Secondary In</u> Water-St: 4A, an Drainage Dry-Seas Saturatio) Geomorp Shallow A FAC-Neu Raised A Frost-Hea	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) on Water Table (C2 n Visible on Aerial I whic Position (D2) Aquitard (D3) ttral Test (D5) nt Mounds (D6) (LF ave Hummocks (D7	e required) (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)
Depth (inches): Remarks: S = sa HYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table of Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present	dicators: imum of one) (A2) (B4) (B4) (B4) (B4) (B4) (B4) (B4) (Concave S (Concave S)	required; ch gery (B7) urface (B8)	No X No X No X No X No X No X No X No X) ed Leaves (B9) (ex nd 4B) 11) rtebrates (B13) Ilfide Odor (C1) zospheres along L Reduced Iron (C4) Reduced Iron (C4) Reduction in Tilled tressed Plants (D1 in in Remarks) Depth (inches): Depth (inches):	e; vf = very fine; ccept MLRA iving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (mo - <u>Secondary In</u> Water-St: 4A, an Drainage Dry-Seas Saturatio) Geomorp Shallow A FAC-Neu Raised A Frost-Hea	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) con Water Table (C2 n Visible on Aerial I bhic Position (D2) Aquitard (D3) ttral Test (D5) nt Mounds (D6) (LF ave Hummocks (D7 Hydrology Presen	e <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)
Depth (inches): Remarks: S = sa HYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present?	dicators: imum of one) (A2) (B2) (B4) (B4) (B4) (B4) (B4) (B4) (B4) (Concave S (Concave S) (Concave S (Concave S (Concave S) (Concave S (Concave S) (Concave S (Concave S) (Concave S) (Con	required; ch gery (B7) urface (B8)	No X No X No X No X No X No X No X) ed Leaves (B9) (ex ind 4B) 11) rtebrates (B13) ilfide Odor (C1) zospheres along L Reduced Iron (C4) Reduction in Tilled tressed Plants (D1 in in Remarks) Depth (inches): Depth (inches): Depth (inches):	e; vf = very fine; ccept MLRA iving Roots (C3 Soils (C6)) (LRR A) >16 >16	+ = heavy (mo - <u>Secondary In</u> Water-St 4A, an Drainage Dry-Seas Saturatio) Geomorp Shallow A FAC-Neu Raised A Frost-Hea Wetland	re clay); - = light (le dicators (2 or more ained Leaves (B9) (d 4B) Patterns (B10) con Water Table (C2 n Visible on Aerial I bhic Position (D2) Aquitard (D3) ttral Test (D5) nt Mounds (D6) (LF ave Hummocks (D7 Hydrology Presen	e <u>required)</u> (MLRA 1, 2, (MLRA 1, 2, 2) Imagery (C9) RR A) 7)

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

Project/Site: Medford Urban Reserve LWI		City/County:	Medford UR /	Jackson	Sampling Dat	e: 4/23/2015
Applicant/Owner: City of Medford				State: OR	- Sampling	Point: P26
Investigator(s): Clare Kenny, Taya K. Macl	ean	Section, T	ownship, Rang	e: Section 31, T36S,	R1W	
Landform (hillslope, terrace, etc.): terrace				(concave, convex, none):		Slope (%): <2
Subregion (LRR): A, Northwest Forests and C	Coast	Lat: 42.395050	-	g: -122.862300		n: NAD 1983
Soil Map Unit Name: Unit 35A: Cove of		· · · · · · · · · · · · · · · · · · ·	-		classification: F	
Are climatic / hydrologic conditions on the site		e of year?	Ye			plain in Remarks)
	, or Hydrology	significantly of	disturbed? A	Are "Normal Circumsta	ances" present?	Yes X No
Are Vegetation ,Soil	, or Hydrology	naturally prot	olematic? (If needed, explain any	answers in Rer	narks.)
SUMMARY OF FINDINGS – Attach	site map sho	wing sampling	point locat	ions, transects,	important fe	atures, etc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Samp	led Area		
Wetland Hydrology Present?	Yes X	No	within a We	tland? Yes	X No	
Precipitation prior to fieldwork: Dry spring	evaluation					
Remarks:	<i>(</i>					
PEM wetland W04-A. Sample collected in NW	corner of parcel,	In lowest area of top	ograpny. Road	iside ditch feeds to we	etiand.	
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test v	worksheet:	
Tree Stratum (Plot size: <u>30' r</u>)	<u>% Cover</u>	Species?	Status	Number of Domina	int Species	
1.				That Are OBL, FAC	CW, or FAC:	1 (A)
2.				,	· _	()
3.				Total Number of Do	ominant	
4.				Species Across All		1 (B)
	0%	= Total Cover			_	()
Sapling/Shrub Stratum (Plot size: 10' I				Percent of Domina	nt Species	
1.				That Are OBL, FAC		<u>100%</u> (A/B)
2.				Prevalence Index		()
3.		· · · · · · · · · · · · · · · · · · ·		Total % Cove		by:
4.		· · · · · · · · · · · · · · · · · · ·		OBL species	0 x 1 =	0
5.				FACW species	0 x 2 =	0
	0%	= Total Cover			100 x 3 =	300
Herb Stratum (Plot size: <u>5' r</u>)				FACU species	0 x 4 =	0
1. Alopecurus pratensis	98%	Yes	FAC	UPL species	0 x 5 =	0
2. Dipsacus fullonum	2%	No	FAC		100 (A)	300 (B)
3.				Prevalence Inde		3.00
4.		·		Hydrophytic Vege		
5.		·			for Hydrophytic	
6.		·		X 2 - Dominance		
7.				X 3 - Prevalence		
8.	_	·				(Provide supporting
9.					narks or on a se	
10.					on-Vascular Plar	
11.		· · · · · · · · · · · · · · · · · · ·				tation ¹ (Explain)
····		Tatal Causer				
Woody Vine Stratum (Plot size: <u>10' i</u>) <u></u>	= Total Cover		¹ Indicators of hydric be present.	c son and wetlar	ia nyarology must
1.	/			be present.		
2.				Hydrophytic		
	0%	= Total Cover		Vegetation	Yes X N	1o
% Bare Ground in Herb Stratum 0%				Present?		
Remarks:				Enter	ed by: tkm	QC by: cmw

	Matrix			Redox Fe	atures		-	
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4 10YF	R 3/1	95	7.5YR 4/6	5	С	М	С	
4-16 10YF	R 4/1	95	7.5YR 4/6	5	С	М	С	
ype: C=Concentration,	D=Depletic	n, RM=Rec	luced Matrix CS=Co	overed or Coated	Sand Grains.	² Location:	PL=Pore Lining, M=N	latrix.
ydric Soil Indicators: (A	Applicable	to all LRR	s, unless otherwis	e noted.)		Indicators f	for Problematic Hydr	ric Soils ³ :
Histosol (A1)			Sandy Redox (S5)		2 cm Mu	uck (A10)	
Histic Epipedon (A2)			Stripped Matrix				rent Material (TF2)	
Black Histic (A3)				Mineral (F1) (exc	ept MLRA 1)	Very Sh	allow Dark Surface (T	F12)
Hydrogen Sulfide (A4)		Loamy Gleyed				Explain in Remarks)	,
X Depleted Below Dark		11)	X Depleted Matri			`	. ,	
Thick Dark Surface (A		,	X Redox Dark Su	()		³ Indicators of	of hydrophytic vegetati	ion and
Sandy Mucky Mineral			Depleted Dark			wetland h	ydrology must be pres	sent,
Sandy Gleyed Matrix			Redox Depress				sturbed or problematic	
Type: Depth (inches):		= clay; L =	loam or loamy; co	= coarse; f = fine		ydric Soil Pre + = heavy (m	esent? Yes X ore clay); - = light (les	No s clay)
Type: Depth (inches): Remarks: S = sand; HYDROLOGY Vetland Hydrology Indic	Si = silt; C			= coarse; f = fine				
Type: Depth (inches): eemarks: S = sand; HYDROLOGY Vetland Hydrology Indic	Si = silt; C			= coarse; f = fine		+ = heavy (m		s clay)
Type: Depth (inches): eemarks: S = sand; HYDROLOGY Vetland Hydrology Indic	Si = silt; C		eck all that apply)	= coarse; f = fine Leaves (B9) (ex o	; vf = very fine;	+ = heavy (m - <u>Secondary I</u>	ore clay); - = light (les	s clay) required)
Type: Depth (inches): emarks: S = sand; HYDROLOGY /etland Hydrology Indic trimary Indicators (minim	Si = silt; C ators: um of one i		eck all that apply)	Leaves (B9) (ex o	; vf = very fine;	+ = heavy (m - <u>Secondary I</u> Water-S	ore clay); - = light (les	s clay) required)
Type: Depth (inches): emarks: S = sand; HYDROLOGY Vetland Hydrology Indic rimary Indicators (minim Surface Water (A1)	Si = silt; C ators: um of one i		neck all that apply)	Leaves (B9) (ex o d 4B)	; vf = very fine;	+ = heavy (m _ <u>Secondary I</u> Water-S 4A, a	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N	s clay) required)
Type: Depth (inches): temarks: S = sand; IYDROLOGY Vetland Hydrology Indic trimary Indicators (minim Surface Water (A1) High Water Table (A2	Si = silt; C ators: um of one i		eck all that apply) Water-Stained 1, 2, 4A, and	Leaves (B9) (exc d 4B)	; vf = very fine;	+ = heavy (m <u>Secondary I</u> Water-S 4A, a Drainag	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N nd 4B)	s clay) <u>required)</u> MLRA 1, 2,
Type: Depth (inches): temarks: S = sand; HYDROLOGY Vetland Hydrology Indic trimary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3)	Si = silt; C cators: um of one i		weck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B1	Leaves (B9) (ex o d 4B) I) bbrates (B13)	; vf = very fine;	+ = heavy (m <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N Ind 4B) Ie Patterns (B10)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; IYDROLOGY Vetland Hydrology Indic rimary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	Si = silt; C cators: um of one i		Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi	Leaves (B9) (exc d 4B) Debrates (B13) de Odor (C1)	; vf = very fine; cept MLRA	+ = heavy (m <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N In d 4B) Ie Patterns (B10) ason Water Table (C2)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): emarks: S = sand; IYDROLOGY /etland Hydrology Indic rimary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	Si = silt; C cators: um of one I 2) 32)		Water-Stained UWater-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	Leaves (B9) (exc d 4B) Debrates (B13) de Odor (C1)	; vf = very fine; cept MLRA	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N Ind 4B) Ie Patterns (B10) ason Water Table (C2)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): Cemarks: S = sand; Cemarks: C	Si = silt; C cators: um of one I 2) 32)		Water-Stained Uwater-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re	Leaves (B9) (exc d 4B) I) Ibrates (B13) de Odor (C1) Ispheres along Li	; vf = very fine; cept MLRA	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor Shallow	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N Ind 4B) Be Patterns (B10) ason Water Table (C2) Fon Visible on Aerial In rphic Position (D2)	<u>required)</u> MLRA 1, 2,
Type: Depth (inches): Cemarks: S = sand; Cemarks: Cemarks: C	Si = silt; C eators: um of one i 2) 32) 4)		Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (ex d 4B) brates (B13) de Odor (C1) ospheres along Li educed Iron (C4)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor Shallow FAC-Ne	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N Ind 4B) Be Patterns (B10) ason Water Table (C2) on Visible on Aerial Im rphic Position (D2)	s clay) required) MLRA 1, 2,) nagery (C9)
Type: Depth (inches): Cemarks: S = sand; IYDROLOGY Vetland Hydrology Indic trimary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) X Algal Mat or Crust (B4 Iron Deposits (B5)	Si = silt; C :ators: <u>um of one i</u> () (2) (32) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7	equired; ch	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (exc d 4B) brates (B13) de Odor (C1) espheres along Li educed Iron (C4) eduction in Tilled essed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N and 4B) The Patterns (B10) ason Water Table (C2) ason Visible on Aerial In rphic Position (D2) Aquitard (D3) patral Test (D5)	<u>required)</u> MLRA 1, 2, nagery (C9)
Type: Depth (inches): emarks: S = sand; IYDROLOGY /etland Hydrology Indic rimary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Si = silt; C ators: um of one 1 2) 32) 4) B6) Aerial Imag	equired; ch	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverter Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (exc d 4B) brates (B13) de Odor (C1) espheres along Li educed Iron (C4) eduction in Tilled essed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N ason Water Table (C2) ion Visible on Aerial In rphic Position (D2) r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRI	<u>required)</u> MLRA 1, 2, nagery (C9)
Type: Depth (inches): Cemarks: S = sand; Cemarks: Cemarks:	Si = silt; C ators: um of one 1 2) 32) 4) B6) Aerial Imag	equired; ch	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverter Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (exc d 4B) brates (B13) de Odor (C1) espheres along Li educed Iron (C4) eduction in Tilled essed Plants (D1)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N ason Water Table (C2) ion Visible on Aerial In rphic Position (D2) r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRI	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Cemarks: S = sand; Cemarks: Cemarks: Ce	Si = silt; C ators: um of one 1 2) 32) 4) B6) Aerial Imag	equired; ch	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverter Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (exe d 4B) I) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) eduction in Tilled essed Plants (D1) in Remarks)	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Drainag Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N ason Water Table (C2) ion Visible on Aerial In rphic Position (D2) r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRI	<u>required)</u> MLRA 1, 2, nagery (C9)
Type: Depth (inches): Remarks: S = sand; TYDROLOGY Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present?	Si = silt; C eators: um of one i 2) 32) 4) B6) Aerial Imag concave Su	equired; ch gery (B7) rface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizc Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (exc d 4B) brates (B13) de Odor (C1) educed Iron (C4) eduction in Tilled essed Plants (D1) in Remarks) Depth (inches):	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised A Frost-He	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N ason Water Table (C2) ion Visible on Aerial In rphic Position (D2) r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRI eave Hummocks (D7)	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Type: Depth (inches): Remarks: S = sand; ATYDROLOGY Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) X Algal Mat or Crust (B4 Iron Deposits (B3) X Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C Sield Observations: Surface Water Present? Water Table Present?	Si = silt; C ators: um of one i 2) 32) 4) B6) Aerial Imag concave Su Yes _ Yes _	equired; ch gery (B7) rface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B1 ⁻ Aquatic Inverter Hydrogen Sulfi Oxidized Rhizo Presence of Recent Iron Re Stunted or Stree Other (Explain No X No X	Leaves (B9) (exc d 4B) brates (B13) de Odor (C1) spheres along Li educed Iron (C4) eduction in Tilled essed Plants (D1) in Remarks) Depth (inches): Depth (inches):	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)) (LRR A)	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised A Frost-He	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N and 4B) Pe Patterns (B10) ason Water Table (C2) on Visible on Aerial In rphic Position (D2) r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRI eave Hummocks (D7) d Hydrology Present	s clay) required) MLRA 1, 2,) nagery (C9) R A)
Depth (inches): Remarks: S = sand; HYDROLOGY Vetland Hydrology Indic Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B3) X Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	Si = silt; C sators: um of one i um of one i 2) 32) 4) B6) Aerial Imag concave Su Yes	equired; ch gery (B7) rface (B8)	Water-Stained 1, 2, 4A, and Salt Crust (B1 ⁻ Aquatic Inverter Hydrogen Sulfi Oxidized Rhizo Presence of Recent Iron Re Stunted or Stree Other (Explain No X No X	Leaves (B9) (exc d 4B) brates (B13) de Odor (C1) educed Iron (C4) eduction in Tilled essed Plants (D1) in Remarks) Depth (inches):	; vf = very fine; cept MLRA ving Roots (C3 Soils (C6)) (LRR A) >16	+ = heavy (m - <u>Secondary I</u> Water-S 4A, a Dry-Sea X Saturati X Geomor Shallow FAC-Ne Raised A Frost-He	ore clay); - = light (les Indicators (2 or more r Stained Leaves (B9) (N ason Water Table (C2) ion Visible on Aerial In rphic Position (D2) r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRI eave Hummocks (D7)	s clay) <u>required)</u> MLRA 1, 2,) nagery (C9) R A) ?

Appendix D

Wetland Summary Sheets

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ME	DFORD URBAN RESER	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHE	ET
(A) Wetland ID: W01				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	_at: 42.3027	Long: -122.813	Figure Number: F-69	BCS-1
(C) Location: Tax Lot(s): 371W3453	00, 371W345200, 371W3451	00		
T, R, S(s): T37S R01V	V Section 34, T38S R01W Se	ction 03		
	WSW, SESW, NWNW			
		DEMOL		
(D) Wetland Size (acres): 2.16	(E) Cowardin Class: (F) HGM Class:	PEMCh SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Coker clay, Darow	()	01		
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek	(
(I) Sample Plot Numbers (if any):	P01, P02	(M) If no plot - Visu	ally confirmed? N/A	
Plot date (if any): 4/6/2015	101,102	Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if	any): N/A			
(K) Dominant Vegetation (Common and Scie	ntific Name)			
Tree				
Shrub				
Herb field meadow-foxtail Alopecurus pratensis				
spreading bent Agrostis stolonifera				
needle spike-rush Eleocharis acicularis				
(L) Primary hydrology sources: Drain and c	litch			
(N) Locally Significant Wetland Determination	: LSW? No	LSW Criteria:	none	
(O) Comments that describe the wetland, inclu	uding topographic position, la	and uses and significant altera	tions (including agricultural).	
Wetland is located in a flood irrigated pasture de	ominated by meadow foxtail.	t is connected to W02 by a dite	ch line that runs along the southern bo	oundary of the parcel.

ME	DFORD URBAN RESERV	E LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W02-A				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	at: 42.3020	Long: -122.811	Figure Number: F-68, F-69	BCS-12
(C) Location: Tax Lot(s): 381W03300)			
T, R, S(s): T37S R01W	/ Section 34, T38S R01W Secti	on 03		
QQ(s): SESW, NET				
		DEMO		
(D) Wetland Size (acres): 0.50	(E) Cowardin Class: (F) HGM Class:	PEMCh SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Coker clay	(F) HOW Class.	30		
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek			
(I) Sample Plot Numbers (if any):	P03	(M) If no plot - Visual	- ly confirmed? N/A	
Plot date (if any): 4/6/2015	P05	Visual date (if any):	iy commed: N/A	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if	any): N/A			
(K) Dominant Vegetation (Common and Scier	ntific Name)			
Tree				
Shrub				
<u> </u>				
Herb field meadow-foxtail Alopecurus pratensis				
Baltic rush Juncus balticus				
needle spike-rush Eleocharis acicularis				
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determination:	LSW? No	LSW Criteria:	none	
(O) Comments that describe the wetland, inclu	ding topographic position, land	d uses and significant alterati	ons (including agricultural).	
Wetland is located in a flood irrigated pasture do	pminated by meadow foxtail. It is	s connected to W01 by ditche	s, however has been separated out as a se	eparate OFWAM assessment unit.

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET							
(A) Wetland ID: W02-B				OFWAM Grouping Code:			
(B) Wetland Location (Centroid):	Lat: 42.3023	Long: -122.809	Figure Number: F-68	BCS-12			
(C) Location: Tax Lot(s): 381	W03300						
T, R, S(s): T37	S R01W Section 34, T38S R01W Se	ction 03					
	SW, NENW						
(D) Wetland Size (acres): 0.17	(E) Cowardin Class:	PEMCh		Cowardin breakdown if multiple =			
	(F) HGM Class:	RI		Cowarain breakaown ij manipie –			
(G) Mapped Soil Units: Coker clay	()						
(H) Watershed Boundary (6th Field HU	c): Larson Creek-Bear Creek	κ	_				
(I) Sample Plot Numbers (if any):	P03	(M) If no plot - Visua	ally confirmed? N/A				
Plot date (if any): 4/6/2015		Visual date (if any):					
Method: USACE; WMVC supplement		Method (if any):					
(J) DSL determination / delineation nu	mber (if any): N/A						
	• •						
(K) Dominant Vegetation (Common a Tree	nd Scientific Name)						
Shrub							
Herb							
field meadow-foxtail Alopecurus pra							
Baltic rush Juncus balticus needle spike-rush Eleocharis acic							
	uans						
(L) Primary hydrology sources: Dite	ch						
(N) Locally Significant Wetland Determ	ination: LSW? No	LSW Criteria:	none				
(O) Comments that describe the wetlan	nd, including topographic position, la	and uses and significant altera	tions (including agricultural).				
Wetland is located in a flood irrigated pa	asture dominated by meadow foxtail.	It is connected to W02 by ditch	es, however has been separated out a	as a separate OFWAM assessment unit.			

м	EDFORD URBAN RESE	RVE LOCAL WETLANDS I	NVENTORY SUMMARY SHEET	
(A) Wetland ID: W03				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3023	Long: -122.807	Figure Number: F-68	BCS-9
(C) Location: Tax Lot(s): 371W345	300, 381W03300	-		
T, R, S(s): T37S R01	W Section 34, T38S R01W Section 34, T38W Secti	ection 03		
	12, L13, SESW, NWNE, NENV			
(D) Wetland Size (acres): 2.33	(E) Cowardin Class:	PEMBh		Cowardin breakdown if multiple =
(D) Welland Size (acres). 2.33	(F) HGM Class:	SV		Cowarain breakdown ij manipie –
(G) Mapped Soil Units: Brader-Debenger			-	
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Cree	k	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visuall	y confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):	4/6/2015 and 7/1/20	
Method: USACE; WMVC supplement		Method (if any):	Viewed from Medfor	d Irrigation District canal dike.
	15 1 1 1			
(J) DSL determination / delineation number (if any): N/A			
(K) Dominant Vegetation (Common and Sci	ientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis				
, ,				
(L) Primary hydrology sources: Medford	Irrigation District Canal			
(N) Locally Significant Wetland Determinatio	n: LSW? No	LSW Criteria:	none	
(O) Comments that describe the wetland, inc				
Wetland is located in a flood irrigated pasture	dominated by meadow foxtail.	Obvious wetland signature obser	ved on 4/6/15 from west of irrigation canal.	

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W04-A				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	at: 42.3946	Long: -122.862	Figure Number: F-	-8 MWC-1	
(C) Location: Tax Lot(s): 361W31D17	700, 361W31D1800				
T, R, S(s): T36S R01W	/ Section 31D				
QQ(s): NWSE					
(D) Wetland Size (acres): 1.67	(E) Cowardin Class:	PEMCd		Cowardin breakdown if multiple =	
(D) Weitand Size (acres). 1.07	(F) HGM Class:	SV		cowaram breakdown ij manipie –	
(G) Mapped Soil Units: Coker clay, Cove c		-			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue R	liver			
(I) Sample Plot Numbers (if any):	P05, P26	(M) If no plot - Vis	ually confirmed? N/A		
Plot date (if any): 4/7/2015, 4/23/2015		Visual date (if any			
Method: USACE; WMVC supplement		Method (if any):			
(1) DSI determination / delineation number (if)·				
(J) DSL determination / delineation number (if	any): N/A	<u> </u>			
(K) Dominant Vegetation (Common and Scien	ntific Name)				
Tree					
Shrub					
Herb					
field meadow-foxtail Alopecurus pratensis					
spreading rush Juncus patens					
Fuller's teasel Dipsacus fullonum					
(L) Primary hydrology sources: Ditch					
(-, · · · · · · · · · · · · · · · · · · ·					
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetland, inclu	ding topographic position, lar	nd uses and significant alter	ations (including agricultural).		
Wetland is located south of Justice Road. Stand			e it recieves ditch inflow. This wetla	nd connects to W04-B via a ditch line, and is	
likely connected hydrologically to W04-Mosaic v	a nummocky microtopography	to the southeast.			

	MEDFORD URBAN RESER	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEE	ĒT
(A) Wetland ID: W04-B				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3947	Long: -122.860	Figure Number: F-8	MWC-1
(C) Location: Tax Lot(s): 361W31	D1900			
T, R, S(s): T36S R0				
QQ(s): NESE				
(D) Wetland Size (correc): 0.15	(E) Cowardin Classe	PEMCh		Courselin brochdours if routints
(D) Wetland Size (acres): 0.15	(E) Cowardin Class: (F) HGM Class:	RI		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Phoenix clay				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visual	lly confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):	4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	Confirmed dur	ring site visit without sample plot
(J) DSL determination / delineation number	r (if any): N/A			
(K) Dominant Vegetation (Common and S	cientific Name)			
Tree				
Shrub				
Herb				
lamp rush Juncus effusus				
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determination	on: LSW? Yes	LSW Criteria:	Hydrologic Control	
(O) Comments that describe the wetland, in				
Wetland is depressional (marked by Medford	d City Marsh points) and fed by d	tch inflow. It is distinct from the	mosaic complex, but connected hydro	ologically to W04-A via roadside ditch.

	MEDFORD URBAN RE	SERVE LOCAL WETLAND	S INVENTORY SUMMARY SHEET	
(A) Wetland ID: W04-Mosaic				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3939	Long: -122.861	Figure Number: F-8	MWC-1
(C) Location: Tax Lot(s): 361W	/31D1800, 361W31D1900			
T, R, S(s): T36S	R01W Section 31D			
QQ(s): NWS	E, NESE			
(D) Wetland Size (acres): 6.20	(E) Cowardin Class	E PEMC		wardin breakdown if multiple =
	(F) HGM Class:	SV		
(G) Mapped Soil Units: Coker clay, F				
(H) Watershed Boundary (6th Field HUC)	Whetstone Creek-Re	ogue River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? Yes	
Plot date (if any): N/A		Visual date (if any	: 4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	Site visit and walk arour	d
(J) DSL determination / delineation numl	per (if any): N/A			
(K) Dominant Vegetation (Common and	I Scientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus prater	nsis goldfields Lasthen	ia species		
navarretia Navarretia specie	-			
peppergrass Lepidium species				
popcorn-flower Plagiobothrys spe				
(L) Primary hydrology sources: None				
(N) Locally Significant Wetland Determin	ation: LSW?	Yes LSW Criteria:	Hydrologic Control.	
			Wetland of Special Interest for Protection (ra	re / unique)
(O) Comments that describe the wetland				
			oan soil (and to avoid disturbance). The northeast he ODFW Oregon Conservation Strategy (2006).	corner of the feature has been
graded and has a selection of howening ve		are listed as a strategy habitat in	The ODI W Oregon Conservation Strategy (2000).	
1				

		MEDF	ORD URB			IVENTORY SUMMARY	SHEET	
(A) Wetland ID: W	/06							OFWAM Grouping Code:
(B) Wetland Locatio	n (Centroid):	Lat:	42.3965	Lon	ng: -122.865	Figure Number: F	-7, F-8	MWC-2
(C) Location:	Tax Lot(s):	361W31A2800), 361W31D1	400, 361W31A800	<u> </u>	-		
. ,		T36S R01W S						
		SWNE, NWSE						
								l'a la selatore if soultints
(D) Wetland Size (ad	:res): 0.30		(E) Cowardi (F) HGM Cla		PSS1C RI		COW	vardin breakdown if multiple =
(G) Mapped Soil Un	its: Cove	clay		155.	Ni			
(H) Watershed Boun	dary (6th Field	ł HUC):	Whetstone (Creek-Rogue River				
(I) Sample Plot Numl	bers (if any):		N/A		(M) If no plot - Visually	confirmed? Yes		
Plot date (if any):	N/A				Visual date (if any):	4/7/201	.5	
Method: USACE; WM	1VC suppleme	nt			Method (if any):	Observe	d from start of di	irt road at Justice Lane
	• • • •		-					
(J) DSL determinatio	n / delineation	n number (if any	<u>/): </u>	WD2012-0181				
(K) Dominant Veget	ation (Comm	on and Scientif	ic Name)					
Tree								
willow	Salix speci							
narrow-leaf willow	Salix exigu	а						
Shrub		<u> </u>						
Himalayan blackberry	y Rubus arm	eniacus						
Herb								
field meadow-foxtail	Alopecurus	s pratensis						
	·							
(L) Primary hydrolog	y sources:	Swanson Creel	<					
			_					
(N) Locally Significan	t Wetland Def	termination:	LSW?	Yes	LSW Criteria:	Wildlife Habitat, Fish Habitat,	, Water Quality, H	lydrologic Control
			-	,				
(a) a		the sector and the second term	• • • • • • • • • • •	·	t at an tit and a large sta	(to built a sector built and the		
						ns (including agricultural). etland has grown in size since	- 0010	
SWCA expanded me	WD wetianu p	olygon based o	n leview of n	Istorical aerial image	ary which suggested the w	etianu nas grown in size since	3 2012.	

MEI	DFORD URBAN RESERVE I	LOCAL WETLANDS IN	IVENTORY SUMMARY SHEET	
(A) Wetland ID: W07				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	at: 42.4028 Lor	ong: -122.858	Figure Number: F-4, F-5	MWC-3
(C) Location: Tax Lot(s): 361W31A20)0, 361W31A100			
T, R, S(s): T36S R01W	/ Section 31A			
QQ(s): NENE				
(D) Wetland Size (acres): 1.35	(E) Cowardin Class: (F) HGM Class:	PEMBh SV	Сои	vardin breakdown if multiple =
(G) Mapped Soil Units: Padigan clay	(-)	~		
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visually		
Plot date (if any): N/A		Visual date (if any):	4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	WD wetland confrmed vi	sually during site visit
(J) DSL determination / delineation number (if a	any): WD2005-0692			
(K) Dominant Vegetation (Common and Scien	ntific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtailAlopecurus pratensislamp rushJuncus effususcreeping wild ryeElymus repensFuller's teaselDipsacus fullonum				
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria: V	Nater Quality	
(O) Comments that describe the wetland, includ This wetland connects to wetland W38 to the we		ses and significant alteration	ns (including agricultural).	

	MEDFORD URBAN RESE	RVE LOCAL WETLAND	SINVENTORY SUMMARY SHEET	
(A) Wetland ID: W08				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3939	Long: -122.852	Figure Number: F-9, F-10	MWC-13
(C) Location: Tax Lot(s): 361W32	2C500, 361W32C100			
T, R, S(s): T36S R(01W Section 32C			
QQ(s): NWSW,				
(D) Wettend Cine (comes): 4.70	(F) Osmanlin Olasas	DEMD		Countrie has all down if multiple
(D) Wetland Size (acres): 1.76	(E) Cowardin Class: (F) HGM Class:	PEMB SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Cove Clay				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vise	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any)		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number		<u>.</u>		
(K) Dominant Vegetation (Common and S	cientific Name)			
Tree not field verified				
not held verhied				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Swanson	n Creek			
(N) Locally Significant Wetland Determinati	ion: LSW? Ye	5 LSW Criteria:	Water Quality	
(O) Comments that describe the wetland, in				
Wetland is located north of Swanson Creek	and associated riparian vegetati	on, within a hydric soil unit. Co	nnected to W39-A and W41.	

М	EDFORD URBAN RESERV	E LOCAL WETLAND	S INVENTORY SUMMARY SHEET	
(A) Wetland ID: W09				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3926	Long: -122.846	Figure Number: F-10	MWC-15
(C) Location: Tax Lot(s): 361W32C2				
T, R, S(s): T36S R01				
	ESW, SWSE, NESW			
(D) Wetland Size (acres): 11.52	(E) Cowardin Class:	PEMBh SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Cove clay	(F) HGM Class:	31		
· · · · · · · · · · · · · · · · · · ·				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Riv	ver	<u> </u>	
(I) Sample Plot Numbers (if any):	P08	(M) If no plot - Vis	-	
Plot date (if any): 4/8/2015		Visual date (if any)	<u>;:</u>	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (i	if any): WD2009-0470			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree unknown species				
willow Salix species				
Shrub				
Oregon ash Fraxinus latifolia	red osier dogwo	od Cornus alba		
currant or gooseberry Ribes species				
Herb field meadow-foxtail Alopecurus pratensis	See W/D2000 0/	170 for more encoine		
field meadow-foxtail Alopecurus pratensis spreading rush Juncus patens	266 MD7002-04	470 for more species.		
clustered field sedge Carex praegracilis				
spreading bent Agrostis stolonifera				
(L) Primary hydrology sources: Swanson C	Creek			
(N) Locally Significant Wetland Determination	n: LSW? Yes	LSW Criteria:	Water Quality	
(N) Locally Significant Wetland Determination	1. LOW: 105	LOW CITCHIA.	Water Quanty	
(O) Comments that describe the wetland, incl				
Wetland extends offsite to the northeast and flo wetland from the DSL wetland delineation data			· · · · · · · · · · · · · · · · · · ·) (accessible). The portion of the

MED	FORD URBAN RESERVE L	OCAL WETLANDS IN	VENTORY SUMMARY SHEET	
(A) Wetland ID: W10-A				OFWAM Grouping Code:
(B) Wetland Location (Centroid): Lat:	: 42.3880 Long	g: -122.851	Figure Number: F-11, F-112	MWC-5
(C) Location: Tax Lot(s): 371W05300, 3	371W05313			
T, R, S(s): T37S R01W S	Section 05			
QQ(s): NWNW, SWN	W, NENW			
(D) Wetland Size (acres): 3.06	(E) Cowardin Class:	PEMCd		Cowardin breakdown if multiple =
	(F) HGM Class:	RFT		
(G) Mapped Soil Units: Carney clay, Coker cl	ay, Padigan clay	_		
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue River			
(I) Sample Plot Numbers (if any):	P09	(M) If no plot - Visually	confirmed? N/A	
Plot date (if any): 4/8/2015		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if an	wD2007-0106			
(K) Dominant Vegetation (Common and Scienti	fic Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis				
spreading rush Juncus patens				
fescue Festuca species toothed medick Medicago polymorpha				
(L) Primary hydrology sources: Stream				
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	lydrologic Control	
(N) Locally Significant Wetland Determination.		LSW Citteria.		
			· · · · · · · · · · · · · · · · · · ·	
(O) Comments that describe the wetland, includin Polygon was copied from the DSL wetland delinea		s and significant alteration	is (including agricultural).	

	MEDF	FORD URBA	N RESERVE L	OCAL WETLANDS	INVENTORY SUMMA	RY SHEET	
(A) Wetland ID: W10-B							OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat:	: 42.3875	Lon	g: -122.852	Figure Number:	F-11	N/A
(C) Location: Tax Lot(s)	: 371W05300						
T, R, S(s): T37S R01W S	ection 05					
QQ(s): NWNW						
(D) Wetland Size (acres): 0.05	_	(E) Cowardin	Class:	PEMB			Cowardin breakdown if multiple =
(D) Wolland Olde (acrocy) and		(F) HGM Class		SV			cowaram breakaown y matapie
(G) Mapped Soil Units: Coke	r clay	. ,					
(H) Watershed Boundary (6th Fiel	d HUC):	Whetstone Cr	eek-Rogue River		_		
(I) Sample Plot Numbers (if any):		P09		(M) If no plot - Visua	Ily confirmed? N/A		
Plot date (if any): 4/8/2015				Visual date (if any):			
Method: USACE; WMVC suppleme	ent			Method (if any):			
(J) DSL determination / delineatio	on number (if an	w): W	/D2007-0106				
			D2007 0100				
(K) Dominant Vegetation (Comm Tree	ion and Scientif	ic Name)					
Shrub							
Herb							
-	is pratensis						
spreading rush Juncus pa fescue Festuca s							
	polymorpha						
(L) Primary hydrology sources:	None						
(N) Locally Significant Wetland De	etermination:	LSW?	N/A	LSW Criteria:	N/A		
(O) Comments that describe the v	wetland, includir	ng topographic	position, land use	s and significant alterat	ions (including agricultural).	
This wetland was an upland/wetlag							Excluded from OFWAM because <0.5
acre.							

	MEDFORD URBAN	RESERVE LOCAL WETL	ANDS INVENTORY SUMMA	ARY SHEET	
(A) Wetland ID: W10-C					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3871	Long: -122.852	Figure Number:	F-11	N/A
(C) Location: Tax Lot(s): 3	71W05300	-			
T, R, S(s): T	37S R01W Section 05				
QQ(s): N	IWNW				
(D) Wetland Size (acres): 0.05	(E) Cowardin C	lass: PEMB		Col	vardin breakdown if multiple =
	(F) HGM Class:			00	
(G) Mapped Soil Units: Coker cla	· · /				
(H) Watershed Boundary (6th Field H	IUC): Whetstone Cree	k-Rogue River			
(I) Sample Plot Numbers (if any):	P09	(M) If no plo	t - Visually confirmed? N/	A	
Plot date (if any): 4/8/2015		Visual date			
Method: USACE; WMVC supplement		Method (if a	ny):		
(J) DSL determination / delineation r	number (if any): WD	2007-0106			
(K) Dominant Vegetation (Common Tree	and Scientific Name)				
1166					
Shrub					
Shrub					
Herb					
field meadow-foxtail Alopecurus p spreading rush Juncus pater					
fescue Festuca spec					
toothed medick Medicago po	lymorpha				
(L) Primary hydrology sources:	lone				
(N) Locally Significant Wetland Deter	rmination: LSW?	N/A LSW Crit	teria: N/A		
(O) Comments that describe the wet					
This wetland was dominated by an up	bland/wetland mosaic. P09 is th	ne representative plot located in	the ajacent polygon W10-A. Exclud	ded from OFWAM bec	ause <0.5 acre.

M	EDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY SHEET	
(A) Wetland ID: W10-D				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3869	Long: -122.853	Figure Number: F-11	MWC-5
(C) Location: Tax Lot(s): 371W053	00, 371W05313			
T, R, S(s): T37S R07	1W Section 05			
QQ(s): NWNW				
(D) Wetland Size (acres): 0.60	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =
(D) Welland Size (acres). 0.00	(F) HGM Class:	SV		cowardin breakdown ij manipie –
(G) Mapped Soil Units: Coker clay, Padig	.,			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	P09	(M) If no plot - Visi	ally confirmed? N/A	
Plot date (if any): 4/8/2015		Visual date (if any)		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number ((if any), WD2007 010	c		
		0		
(K) Dominant Vegetation (Common and Sc	ientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis				
spreading rush Juncus patens				
fescue Festuca species toothed medick Medicago polymorpha	a			
(L) Primary hydrology sources: None	4			
(L) rinnary nyurology sources. None				
(N) Locally Significant Wetland Determinatio	n: LSW? Yes	LSW Criteria:	Hydrologic Control	
(N) Locary Significant Wetland Determinatio		Low citteria.		
(O) Comments that describe the wetland, inc	luding tonographic position 1	and uses and significant alter	tions (including agricultural)	
Wetland polygon was copied from the DSL we				to W10-E and W22.

	MED	FORD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMARY SI	HEET
(A) Wetland ID: W10-E					OFWAM Grouping Code:
(B) Wetland Location (Ce	ntroid): Lat	: 42.3867	Long: -122.854	Figure Number: F-	-11 MWC-5
(C) Location: Tax	x Lot(s): 371W05313				
. ,	R, S(s): T37S R01W \$	Section 05			
,	QQ(s): NWNW				
(D) Wetland Size (acres):	0.61	(E) Cowardin Class: (F) HGM Class:	PEMC SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units:	Carney clay, Coker c	<i>、 ,</i>	31		
(H) Watershed Boundary (Whetstone Creek-Rogue R	iver		
	-				
(I) Sample Plot Numbers (i Plot date (if any): 4/8	f any): 8/2015	P09	(M) If no plot - Visu Visual date (if any)		
Method: USACE; WMVC su			Method (if any):		
, , , , , , , , , , , , , , , , , , , ,					
(J) DSL determination / de	lineation number (if a	vp): WD2007-0106			
(K) Dominant Vegetation	(Common and Scient	ific Name)			
Tree	(
Chauch					
Shrub					<u> </u>
Herb					
	opecurus pratensis				
	ncus patens stuca species				
	edicago polymorpha				
(L) Primary hydrology sour	• • • •				
(-, , - ,	<u></u>				
(N) Locally Significant Wet	land Determination	LSW? Yes	LSW Criteria:	Hydrologic Control	
(it) Locally organization for			Lott enterial		
				itions (including agricultural). in the ajacent polygon W10-A. Cor	nnected to W22
Wolland polygon had oople					

	MEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY SHEET	
(A) Wetland ID: W10-F				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3814	Long: -122.852	Figure Number: F-13, F-14	MWC-5
(C) Location: Tax Lot(s): 371W0	5900			
T, R, S(s): T37S R				
QQ(s): NWSW				
(D) Wetland Size (acres): 3.80	(E) Cowardin Class:	PEMFh		Cowardin breakdown if multiple =
(D) Welland Size (acres). 5.00	(F) HGM Class:	DCNP		cowaram breakdown ij manipie –
(G) Mapped Soil Units: Carney clay	(-)			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? Yes	
Plot date (if any): N/A		Visual date (if any		
Method: USACE; WMVC supplement		Method (if any):	Site walk through	
(J) DSL determination / delineation numbe	r (if any): WD2007-010	16		
(K) Dominant Vegetation (Common and S	Scientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratens	is			
spreading rush Juncus patens				
fescue Festuca species	,			
toothed medick Medicago polymorp				
(L) Primary hydrology sources: Stream	?			
(N) Locally Significant Wetland Determinat	ion: LSW? Yes	LSW Criteria:	Hydrologic Control	
(O) Comments that describe the wetland, i			ations (including agricultural).	
Historically present pond no longer present	due to decomissioning of orchard	and associated irrigation		

MEI	MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W10-G				OFWAM Grouping Code:		
(B) Wetland Location (Centroid):	at: 42.3847 Lo	ong: -122.851	Figure Number: F-11, F-12, F-13, F-14	MWC-5		
(C) Location: Tax Lot(s): 371W05300	, 371W05600					
T, R, S(s): T37S R01W	Section 05					
QQ(s): SWNW, SE	NW					
(D) Wetland Size (acres): 1.84	(E) Cowardin Class:	PABHh	Cou	ardin breakdown if multiple =		
(D) Weitand Size (acres). 1.84	(F) HGM Class:	DCP	200	urum breakaown ij manipie –		
(G) Mapped Soil Units: Carney clay, Coker	· ·	201				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue River					
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visually	confirmed? Yes			
Plot date (if any): N/A		Visual date (if any):	4/8/2015			
Method: USACE; WMVC supplement		Method (if any):	Site walk through			
(J) DSL determination / delineation number (if a	any): WD2007-0106					
(K) Dominant Vegetation (Common and Scien	tific Name)					
Tree						
Shrub						
Herb						
field meadow-foxtail Alopecurus pratensis						
spreading rush Juncus patens						
fescue Festuca species						
toothed medick Medicago polymorpha						
(L) Primary hydrology sources: Stream						
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	Iydrologic Control			
(O) Comments that describe the wetland, include						
Polygon from previously mapped DSL wetland delineation data was separated in to water and wetland areas. Connected to W10-A and AW32.						

ME	EDFORD URBAN RESER		S INVENTORY SUMMA	RY SHEET	
(A) Wetland ID: W11					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3730	Long: -122.833	Figure Number:	F-16, F-17	MWC-10
(C) Location: Tax Lot(s): 371W0980	0				-
T, R, S(s): T37S R01	N Section 09				
QQ(s): L1, L2					
(D) Wetland Size (acres): 0.98	(E) Cowardin Class:	PEMCx			Cowardin breakdown if multiple =
	(F) HGM Class:	SV			
(G) Mapped Soil Units: Carney clay, Padi	. ,	-		_	
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River			
(I) Sample Plot Numbers (if any):	P10	(M) If no plot - Visu	ally confirmed? N/A		
Plot date (if any): 4/8/2015		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (i	Fomula NI/A				
(K) Dominant Vegetation (Common and Scie	entific Name)				
Tree					
Shrub					
Herb					
broad-leaf cat-tail Typha latifolia					
common spike-rush Eleocharis palustris					
fescue Festuca species					
(L) Primary hydrology sources: Surface flo	w. Potential groundwater. Dra	ins to AW17.			
(, , , , , , , , , , , , , , , , , , ,					
(N) Locally Significant Wetland Determination	: LSW? No	LSW Criteria:	none		
(O) Comments that describe the wetland, inclu			ations (including agricultural).	
Wetland located within a former orchard. This v	vetland is connected to AW17	(man-made pond).			

м	EDFORD URBAN RESERV	E LOCAL WETLANDS I	IVENTORY SUMMARY SHEET	
(A) Wetland ID: W13				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3082	Long: -122.791	Figure Number: F-65, F-66	BCS-2
(C) Location: Tax Lot(s): 371W3512	6			
T, R, S(s): T37S R01	N Section 35			
QQ(s): NESW				
(D) Wetland Size (acres): 0.96	(E) Cowardin Class:	PEMCx		Cowardin breakdown if multiple =
(b) Wettallu Gize (acres). 0.00	(F) HGM Class:	RFT		
(G) Mapped Soil Units: Coker clay, Padig	. ,		-	
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visually	r confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):	4/8/2015	
Method: USACE; WMVC supplement		Method (if any):	Viewed from Santa Ba	rbara Drive to the west.
(J) DSL determination / delineation number (i	fany): N/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis				
lamp rush Juncus effusus				
broad-leaf cat-tail Typha latifolia				
(L) Primary hydrology sources: East latera	l canal and associated ditches. Co	annacts to Larson Crook Posor	voir.	
(L) Finnary hydrology sources.		Diffects to Larson Creek Reserv		
	1 CM/2	1014 Oritoria		
(N) Locally Significant Wetland Determination	: LSW? Yes	LSW Criteria:	Within 1/4 mile of Larson Creek (water qua	lity limited stream)
			<i></i>	
(O) Comments that describe the wetland, incl Wetland is located in a valley and was viewed to				Larson Reservoir) W66 is nearby
weitand is located in a valley and was viewed				

ME	DFORD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W14				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	_at: 42.3229	Long: -122.783	Figure Number: F-57, F-58	LSC-1
(C) Location: Tax Lot(s): 371W26104	4			
T, R, S(s): T37S R01V	V Section 26			
QQ(s): NWSE				
(D) Wetland Size (acres): 0.59	(E) Cowardin Class:	PSS1A/PEMA		Cowardin breakdown if multiple =
	(F) HGM Class:	RI		PSS: 90% PEM: 10%
(G) Mapped Soil Units: Carney clay				· · · · · · · · · · · · · · · · · · ·
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_	
(I) Sample Plot Numbers (if any):	P13	(M) If no plot - Visua	lly confirmed? N/A	
Plot date (if any): 4/9/2015		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if	any): N/A			
(K) Dominant Vegetation (Common and Scie	ntific Name)			
Tree				
Shrub				
willow Salix species				
Herb				
lamp rush Juncus effusus				
Fuller's teasel Dipsacus fullonum				
spreading bent Agrostis stolonifera				
(L) Primary hydrology sources: <u>Stream/Dra</u>				
(N) Locally Significant Wetland Determination:	: LSW? Yes	LSW Criteria:	Water Quality	
(N) Locally Significant Wetland Determination:	: LSW? Yes	LSW Criteria:	Water Quality	
(O) Comments that describe the wetland, inclu Sample plot was taken in a small PEM wetland			ions (including agricultural).	
Grazed and impacted by cattle. Ponding water p				

м	EDFORD URBAN RESEF	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W15				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3204	Long: -122.784	Figure Number: F-57, F-58	LSC-2
(C) Location: Tax Lot(s): 371W261	04			
T, R, S(s): T37S R01	W Section 26			
QQ(s): SWSE				
(D) Wetland Size (acres): 2.05	(E) Cowardin Class:	PSS1d		Cowardin breakdown if multiple =
(b) Weiland Cize (acres). 2.00	(F) HGM Class:	RFT		% PEM unknown
(G) Mapped Soil Units: Carney clay	()			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_	
(I) Sample Plot Numbers (if any):	P13	(M) If no plot - Visua	ally confirmed? N/A	
Plot date (if any): 4/9/2015		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if any): N/A			
	••			
(K) Dominant Vegetation (Common and Sci	entific Name)			
Tree				
Shrub				
Geyer's willow Salix geyeriana				
Herb				
lamp rush Juncus effusus				
(L) Primary hydrology sources: Stream in	flow			
(-, · · · · · · · · · · · · · · · · · · ·				
(N) Locally Significant Wetland Determination	n: LSW? Yes	LSW Criteria:	Water Quality	
(O) Comments that describe the wetland, inc	luding topographic position, la	and uses and significant altera	tions (including agricultural).	
This wetland connects to Mud Creek. Wetland	appears to be identical to W14	, with PEM component presen	t as understory. The willow signature and c	
delineation. Potential willow signature within the polygon to the north - wetland characteristics is	•		to W63. Ground truthing would be helpful fo	or this location. Plot P13 is located in
	demodi, exception open remi			

N	EDFORD URBAN RESE	ERVE LOCAL WETLAND	S INVENTORY SUMMARY SHEET	
(A) Wetland ID: W17				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3030	Long: -122.826	Figure Number: F-71, F-72	BCS-6
(C) Location: Tax Lot(s): 371W330	CD4700			
T, R, S(s): T37S R0	1W Section 33, 33CD			
QQ(s): SESW, S				
(D) Wetland Size (acres): 0.87	(E) Cowardin Class:	PEMCx		Cowardin breakdown if multiple =
(2)	(F) HGM Class:	RI		
(G) Mapped Soil Units: Coker clay, Darc	ow silty clay loam			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Cre	ek		
(I) Sample Plot Numbers (if any):	P14	(M) If no plot - Visi	ally confirmed? N/A	
Plot date (if any): 4/20/2015		Visual date (if any)	:	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number	(if any): WD2004-05	551		
		<u> </u>		
(K) Dominant Vegetation (Common and So Tree	cientific Name)			
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis				
needle spike-rush Eleocharis acicularis				
clustered field sedge Carex praegracilis				
(L) Primary hydrology sources: None				
(N) Locally Significant Wetland Determination	on: LSW? N	o LSW Criteria:	none	
(O) Comments that describe the wetland, in				
Wetland is located within a golf course. Rece		wetland shape exists from golf	course management.	
Strong algal matting, likely a result of golf gre	en management practices.			

ME	DFORD URBAN RESERV	'E LOCAL WETLANDS	INVENTORY SUMMARY S	HEET	
(A) Wetland ID: W18					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	_at: 42.2889	Long: -122.827	Figure Number: F-	-74	BCS-5
(C) Location: Tax Lot(s): 381W0440	1				
T, R, S(s): T38S R01V	V Section 04				
QQ(s): NESW, SW					
(D) Matthew d Circa (a secolar 0.00	(F) Osmanlin Olasa			6	andia has alabaran ifaan diista
(D) Wetland Size (acres): 0.96	(E) Cowardin Class: (F) HGM Class:	PFO1Ch SV		COW	ardin breakdown if multiple =
(G) Mapped Soil Units: Camas-Newberg-E	Evans, Medford silty clay loam, P	• •			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_		
(I) Sample Plot Numbers (if any):	P17	(M) If no plot - Visua	ally confirmed? N/A		
Plot date (if any): 4/21/2015		Visual date (if any):	•		
Method: USACE; WMVC supplement		Method (if any):			
	N				
(J) DSL determination / delineation number (if	any): N/A				
(K) Dominant Vegetation (Common and Scie	ntific Name)				
Tree					
balsam poplar Populus balsamifera					
Shrub					
Himalayan blackberry Rubus armeniacus					
Ularik					
Herb reed canary grass Phalaris arundinacea					
(L) Primary hydrology sources: Bear Creek	and surface flow from adjacent	pedestrian / bike path.			
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	Fish habitat		
(O) Comments that describe the wetland, inclu					
Bear Creek Greenway wetland from ODOT Salr				mple plot. This w	vetland extends offsite and
connects to W79 (inaccessible). Impenetrable v	egetation prevented confirmation	n of upland exclusion within	the riparian vegetation.		

MEDFORD URBAN RESERV	E LOCAL WETLANDS	INVENTORY SUMMAR	Y SHEET	
(A) Wetland ID: W19-A				OFWAM Grouping Code:
(B) Wetland Location (Centroid): Lat: 42.2963	Long: -122.850	Figure Number:	F-76	BCS-7
(C) Location: Tax Lot(s): 381W054800, 381W05B2000, 381W05B13	00, 381W052400			
T, R, S(s): T38S R01W Section 05, 05B				
QQ(s): SENW, SWNW, NESW, NWSW				
(D) Wetland Size (acres): 6.75 (E) Cowardin Class:	PEMCd		C	owardin breakdown if multiple =
(E) Cowardin Class. (F) HGM Class:	SH			
(G) Mapped Soil Units: Coleman loam, Gregory silty clay loam, Medford sil	-			
(H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek				
(I) Sample Plot Numbers (if any): P20	(M) If no plot - Visua	lly confirmed? N/A		
Plot date (if any): 4/22/2015	Visual date (if any):			
Method: USACE; WMVC supplement	Method (if any):			
(J) DSL determination / delineation number (if any): N/A				
(K) Dominant Vegetation (Common and Scientific Name)				
Tree				
Shrub				
Herb				
lamp rush Juncus effusus neckweed	Veronica peregrina			
tall fescue Schedonorus arundinaceus creeping butterc	up Ranunculus repens			
common spike-rush <i>Eleocharis palustris</i> clustered field se	edge Carex praegracilis			
garden bird's-foot-trefoil Lotus corniculatus				
(L) Primary hydrology sources: Groundwater, ditches, adjacent impervious	surfaces.			
(N) Locally Significant Wetland Determination: LSW? Yes	LSW Criteria:	Hydrologic Control		
	Low cinteria.			
		· /		
(O) Comments that describe the wetland, including topographic position, land This wetland is located over a large area with varying topography. It is fed by group of the located over a large area with varying topography.				vert under Reed Lane.
······································				

ME	MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W19-B				OFWAM Grouping Code:		
(B) Wetland Location (Centroid):	.at: 42.2951 Lo	ong: -122.851	Figure Number: F-76	BCS-7		
(C) Location: Tax Lot(s): 381W05480	00, 381W05B2100, 381W05B2200,	, 381W05C800				
T, R, S(s): T38S R01W	/ Section 05, 05B, 05C					
QQ(s): SWNW						
(D) Wetland Size (acres): 0.49	(E) Cowardin Class:	PSS1		owardin breakdown if multiple =		
	(F) HGM Class:	DCP		owaram breakdown ij mattiple –		
(G) Mapped Soil Units: Coleman loam, Gre	egory silty clay loam		—			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek					
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visually	confirmed? Yes			
Plot date (if any): N/A		Visual date (if any):	4/22/2015			
Method: USACE; WMVC supplement		Method (if any):	Observed from parcel	to the east.		
	N N/A					
(J) DSL determination / delineation number (if	any): N/A					
(K) Dominant Vegetation (Common and Scient	ntific Name)					
Tree						
balsam poplar Populus balsamifera						
Shrub						
Himalayan blackberry Rubus armeniacus						
Scouler's willow Salix scouleriana Herb						
lamp rush Juncus effusus						
(L) Primary hydrology sources: Groundwat	er, W19 A and associated ditches.					
(L) Filmary hydrology sources. Groundwat	er, w19_A and associated ditches.					
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	lydrologic Control			
(N) Escally significant wettand beternination.		Low entend.				
(c) Comments that doors the the wetland include	ding to possible position. I and	and similiant alternation	· (in charding a grian literary)			
(O) Comments that describe the wetland, inclu This wetland was inaccessible and viewed from						

ME	DFORD URBAN RESERV	'E LOCAL WETLANDS IN	VENTORY SUMMARY	SHEET
(A) Wetland ID: W20				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	at: 42.2939	Long: -122.849	Figure Number:	F-76 BCS-8
(C) Location: Tax Lot(s): 381W05480	0, 381W05C700, 381W05B170	00, 381W05C600, 381W05C500)	
T, R, S(s): T38S R01W				
QQ(s): SENW, NES				
		55140		
(D) Wetland Size (acres): 3.77	(E) Cowardin Class: (F) HGM Class:	PEMC SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Gregory silty clay lo		30		
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek			
(I) Sample Plot Numbers (if any):	P21	(M) If no plot - Visually	confirmed? N/A	
Plot date (if any): 4/22/2015	P21	Visual date (if any):	commed: N/A	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if a	any): N/A			
(K) Dominant Vegetation (Common and Scier	ntific Name)			
Tree	,			
Shrub				
Herb				
common spike-rush Eleocharis palustris clustered field sedge Carex praegracilis		t	all fescue	Schedonorus arundinaceus
creeping buttercup Ranunculus repens				
American deerweed Acmispon americanus				
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determination:	LSW? No	LSW Criteria:	ione	
(O) Comments that describe the wetland, inclu	ding topographic position land	tuses and significant alteration	ns (including agricultural)	
This wetland is connected to a ditch along the ea				would be an LSW).

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W21				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3649	Long: -122.824	Figure Number: F-22, F-23	MWC-6
(C) Location: Tax Lot(s): 371	W092600, 371W092700			
T, R, S(s): <u>T37</u> 5	S R01W Section 09			
QQ(s): NWS	SE			
(D) Wetland Size (acres): 2.06	(E) Cowardin Class:	PFOd/PABFx	(Cowardin breakdown if multiple =
· · · ·	(F) HGM Class:	SV		unknown
(G) Mapped Soil Units: Carney clay	v, Coker clay			
(H) Watershed Boundary (6th Field HUC	C): Whetstone Creek-Rogue	River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visual		
Plot date (if any): N/A		Visual date (if any):	4/23/2015	
Method: USACE; WMVC supplement		Method (if any):	Observed from N Foo	thill Rd.
(1) DSL datarmination (delineation num	abor (if any), N/A			
(J) DSL determination / delineation num	* ** ·			
(K) Dominant Vegetation (Common an	d Scientific Name)			
Tree				
Shrub				
willow Salix species				
Herb				
broad-leaf cat-tail Typha latifolia			<u> </u>	
Fuller's teasel Dipsacus fullonu	ım			
Himalayan blackberry Rubus armeniac	us			
lamp rush Juncus effusus				
(L) Primary hydrology sources: Pond	d WA28, and irrigation			
(N) Locally Significant Wetland Determine	nation: LSW? Yes	S LSW Criteria:	Hydrologic Control	
(O) Comments that describe the wetlan	d, including topographic position, l	and uses and significant alterati	ions (including agricultural).	
A culvert was observed under N Foothill			confirm pond WA28 due to upland area obso	curing view on west side of N Foothill
Road. Connected to W53.				

	MEDFORD URBAN RESE	RVE LOCAL WETLAND	SINVENTORY SUMMARY SHEET	
(A) Wetland ID: W22				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3877	Long: -122.854	Figure Number: F-11	MWC-5
(C) Location: Tax Lot(s): 371W0	5313			
T, R, S(s): T37S R				
QQ(s): NWNW	I			
(D) Wetland Size (acres): 1.49	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =
	(F) HGM Class:	SV		cowaram breakdown y matapie
(G) Mapped Soil Units: Coker claym, F				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogu	e River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? Yes	
Plot date (if any): N/A		Visual date (if any)	4/8/2015	
Method: USACE; WMVC supplement		Method (if any):	Observed from ajoir	ning fence (east and south sides)
(J) DSL determination / delineation numbe	or (if any): Connected :	to WD2007-0106		
		<u>10 WD2007</u> 0100		
(K) Dominant Vegetation (Common and S	Scientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratens	sis			
fescue Festuca species				
(L) Primary hydrology sources: None				
(L) Filling hydrology sources.				
(N) Locally Significant Wetland Determinat	tion: LSW? Ye	es LSW Criteria :	Hydrologic Control	
(N) Locally Significant wetland Determinat	JUII. LOVV:	25 LOW CITCHIA.	Hydrologic control	<u> </u>
(O) Comments that describe the wetland, i Observed from eastern edge of parcel. Iden				
Observed nom eastern ouge of parton harr				
1				
1				

	MEDFORD URBAN	RESERVE LOCAL WET	ANDS INVENTORY SUMM	ARY SHEET	
(A) Wetland ID: W23					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.4032	Long: -122.877	Figure Number:	F-2	MWC-12
(C) Location: Tax Lot(s):	361W31B500, 362W36A102	•			
T. R. S(s):	T36S R01W Section 31B, T36S	R02W Section 25D. 36A			
-	NWNW, SESE, NENE	,			
(D) Wetland Size (acres): 6.41	(E) Cowardin C				Cowardin breakdown if multiple =
(G) Mapped Soil Units: Cove cla	(F) HGM Class:	RI		-	
(H) Watershed Boundary (6th Field	-	k-Roque River			
	·			_	
(I) Sample Plot Numbers (if any): Plot date (if any): N/A	N/A	(IVI) IT NO PIC Visual date	ot - Visually confirmed? No)	
Method: USACE; WMVC supplement		Method (if a			
(J) DSL determination / delineation	number (if any): N/A				
(K) Dominant Vegetation (Commor	n and Scientific Name)				
Tree					
not field verified					
Shrub					
Herb					
field meadow-foxtail Alopecurus p	oratensis (likely)				
(L) Primary hydrology sources:	Swanson Creek				
(N) Locally Significant Wetland Dete	rmination: LSW?		terie Fish Habitat Water Ous		
(N) Locally Significant Wetland Dete		No LSW Cr	teria: Fish Habitat, Water Qua	inty, hydrologic Col	itroi:
(O) Comments that describe the we This wetland incorporates a City of N		osition, land uses and significat	nt alterations (including agricultur	al).	
This wettand incorporates a City of w					

	MEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY	Y SHEET	
(A) Wetland ID: W24					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.4018	Long: -122.877	Figure Number:	F-2	MWC-2
(C) Location: Tax Lot(s): 362W	/36A102				
T, R, S(s): T36S	R02W Section 36A				
QQ(s): NENE					
(D) Wetland Size (acres): 0.19	(E) Cowardin Class:	PEMA		Cow	ardin breakdown if multiple =
	(F) HGM Class:	RI		000	
(G) Mapped Soil Units: Cove clay	()				
(H) Watershed Boundary (6th Field HUC)	: Whetstone Creek-Rogue	River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No		
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation numl	ber (if any): N/A				
(K) Dominant Vegetation (Common and Tree	Scientific Name)				
Shrub					
Herb					
field meadow-foxtail Alopecurus prate	nsis (likely)				
(L) Primary hydrology sources: Swan	son Creek				
(N) Locally Significant Wetland Determin	ation: LSW? Ye	s LSW Criteria:	Wildlife habitat, Water Qua	lity, Hydrologic Con	itrol
(O) Comments that describe the wetland					
Mapped by the City of Medford as water; I	however, recent historical imagery	does not show inundation, an	d, therefore, was mapped as a v	wetland. Connected	to W86, the riparian wtland along
Swanson Creek, and the water WA12.					

	MEDFORD URBAN RE	SERVE LOCAL WETLAN	DS INVENTORY SUMMARY SHEET	
(A) Wetland ID: W25				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3989	Long: -122.878	Figure Number: F-1, F-2, F-6	MWC-8
(C) Location: Tax Lot(s): 362W	/36A600, 362W36A700			
T, R, S(s): T36S	R02W Section 36A			
QQ(s): SEN				
(D) Wetland Size (acres): 7.71	(E) Cowardin Class	: PEMA		Cowardin breakdown if multiple =
	(F) HGM Class:	Flats		cowardin breakdown ij manipie –
(G) Mapped Soil Units: Agate-Winlo	complex, Coker clay			
(H) Watershed Boundary (6th Field HUC)	: Whetstone Creek-Ro	gue River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - V	isually confirmed? No	
Plot date (if any): N/A		Visual date (if an	y):	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation num	hor (if any), N/A			
(K) Dominant Vegetation (Common and	Scientific Name)			
Tree not field verified				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Ditch	es and surface flow			
(N) Locally Significant Wetland Determin	ation: LSW?	Yes LSW Criteria	: Hydrologic Control	
			Wetland of Special Interest for Protection	(rare / unique).
			·	
(O) Comments that describe the wetland	l, including topographic positio	on, land uses and significant alt	erations (including agricultural).	
This wetland is a vernal pool/wetland mos				

	MEDFORD URBAN RES	ERVE LOCAL WETLAND	S INVENTORY SUMMARY	SHEET	
(A) Wetland ID: W26					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3972	Long: -122.865	Figure Number:	F-3	MWC-2
(C) Location: Tax Lot(s): 361W	'31A2800				
T, R, S(s): T36S	R01W Section 31				
QQ(s): SWN					
(D) Wetland Size (acres): 0.46	(E) Cowardin Class:	PEMC		Com	vardin breakdown if multiple =
	(F) HGM Class:	RI			S: ~90% PEM: ~10%
(G) Mapped Soil Units: Cove clay	()				
(H) Watershed Boundary (6th Field HUC)	Whetstone Creek-Rogu	le River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No		
Plot date (if any): N/A		Visual date (if any	:		
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation numl	per (if any): WD2012-02	181			
(K) Dominant Vegetation (Common and Tree	Scientific Name)				
Shrub Scouler's willow Salix scouleriana	black hawth	norn Crataegus douglas	ii (listod y	egetation - likely)	
Himalayan blackberry Rubus armeniacu		Crataegus dougias		egetation - likely)	
Herb					
Fuller's teasel Dipsacus fullonur	n				
(L) Primary hydrology sources: Swan	son Creek				
(N) Locally Significant Wetland Determin	ation: LSW? Ye	es LSW Criteria:	Wildlife Habitat, Water Qualit	ty, Hydrologic Co	ntrol
(O) Comments that describe the wetland					
PEM wetland in old oxbow of Swanson Cr	eek. Hydrologically connected by	Swanson Creek and the adjoin	ning riparian / Forested wetland fea	ature. Site acces	s would be helpful, as the mapped
wetland polgons are conservatively based	on the riparian vegetation shown	n in aerial imagery.			

м	EDFORD URBAN RESERVI	E LOCAL WETLANDS I	NVENTORY SUMMARY SHEET	
(A) Wetland ID: W27				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3955	Long: -122.865	Figure Number: F-8	MWC-16
(C) Location: Tax Lot(s): 361W31D	1500	-		
T, R, S(s): T36S R01	W Section 31			
QQ(s): NWSE				
		55115		
(D) Wetland Size (acres): 0.81	(E) Cowardin Class: (F) HGM Class:	PEME SV		owardin breakdown if multiple =
(G) Mapped Soil Units: Phoenix clay	(r) How Class.	30	—	
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Riv	rer	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visuall	y confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):	4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	Drive-by on Justice Roa	ld
(J) DSL determination / delineation number (i	fany): WD2012-0181			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree				
Shrub				
not field verified				
Herb field meadow-foxtail Alopecurus pratensis				
lamp rush Juncus effusus				
(L) Primary hydrology sources: Surface flo	W			
(N) Locally Significant Wetland Determination	n: LSW? No	LSW Criteria:	none	
(O) Comments that describe the wetland, incl	uding topographic position, land	uses and significant alteration	ons (including agricultural).	
PEM wetland in field, south of Justice Road an				

ME	DFORD URBAN RESERVE L	OCAL WETLANDS IN	VENTORY SUMMARY SHEET	
(A) Wetland ID: W28				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	.at: 42.3952 Lor	ng: -122.865	Figure Number: F-8	MWC-16
(C) Location: Tax Lot(s): 361W31D1	500			
T, R, S(s): T36S R01W	/ Section 31			
QQ(s): NWSE				
(D) Wetland Size (acres): 0.51	(E) Cowardin Class:	PEME SV	Cow	vardin breakdown if multiple =
(G) Mapped Soil Units: Phoenix clay	(F) HGM Class:	50		
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visually		
Plot date (if any): N/A		Visual date (if any):	4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	Drive-by on Justice Road	
(I) DSI determination (delineation number (if				
(J) DSL determination / delineation number (if				
(K) Dominant Vegetation (Common and Scie	ntific Name)			
Tree				
Oregon ash Fraxinus latifolia				
balsam poplar Populus balsamifera Shrub				
Scouler's willow Salix scouleriana	black hawthorn	Crataegus douglasii	(listed vegetation - likely)	
Himalayan blackberry Rubus armeniacus			(
Herb				
not field verified				
(L) Primary hydrology sources: Surface flow	V			
(N) Locally Significant Wetland Determination:	LSW? No	LSW Criteria: r	none	
(O) Comments that describe the wetland, inclu	ding topographic position. land use	es and significant alteration	ns (including agricultural).	
PEM wetland in field, south of Justice Road and				

	MEDFC	RD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMAR	Y SHEET	
(A) Wetland ID: W29						OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat:	42.3932	Long: -122.875	Figure Number:	F-6	N/A
(C) Location: Tax Lot(s):	361W31C1700		-			
T, R, S(s):	T36S R01W Sec	tion 31C				
QQ(s): I						
(D) Wetland Size (acres): 0.19	(1	E) Cowardin Class:	PSS1/PEM			Cowardin breakdown if multiple =
	-	-) HGM Class:	SV			unknown
(G) Mapped Soil Units: Coker c	•	,				
(H) Watershed Boundary (6th Field	HUC): <u>v</u>	/hetstone Creek-Rogue F	River			
(I) Sample Plot Numbers (if any):	Ν	/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A			Visual date (if any):			
Method: USACE; WMVC supplement	t		Method (if any):			
(J) DSL determination / delineation	number (if anv):	N/A				
(K) Dominant Vegetation (Common Tree	n and Scientific	Name)				
not field verified						
Shrub not field verified						
Herb						
not field verified						
(L) Primary hydrology sources:	Ditch					
·· · · · ·						
(N) Locally Significant Wetland Dete	ermination: L	5W? N/A	LSW Criteria:	N/A		
(O) Comments that describe the we	tland, including	topographic position, la	nd uses and significant altera	tions (including agricultural).		
Mapped by the City of Medford as wa						

Ν	IEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY S	SHEET
(A) Wetland ID: W30				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3932	Long: -122.875	Figure Number:	F-6 N/A
(C) Location: Tax Lot(s): 361W31	C1700			
T, R, S(s): T36S R0	1W Section 31C			
QQ(s): NWSW				
(D) Wetland Size (acres): 0.14	(E) Cowardin Class:	PEMB		Cowardin breakdown if multiple =
	(F) HGM Class:	SV		cowaram breakaown ij manipie –
(G) Mapped Soil Units: Coker clay	(,,			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No	
Plot date (if any): N/A		Visual date (if any	:	
Method: USACE; WMVC supplement		Method (if any):		
(I) DSI determination (delination number	lif anyly N/A			
(J) DSL determination / delineation number				
(K) Dominant Vegetation (Common and So	cientific Name)			
Tree not field verified				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Ditch and	d surface flow			
(N) Locally Significant Wetland Determination	on: LSW? N/A	LSW Criteria:	N/A	
(O) Comments that describe the wetland, in		and uses and significant alter	ations (including agricultural).	
This wetland incorporates a City of Medford N	viarsh data point			

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEE	Т
(A) Wetland ID: W31				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3923	Long: -122.869	Figure Number: F-7	MWC-9
(C) Location: Tax Lot(s): 361W3	1C2500, 361W31C2400, 361W3	1C2300, 361W31C2900, 361W	31C3100, 361W31C300	
T, R, S(s): T36S R	01W Section 31C			
QQ(s): NESW,	SESW			
(D) Wetland Size (acres): 0.52	(E) Cowardin Class:	PEMA		Cowardin breakdown if multiple =
(D) Welland Size (acres). 0.52	(F) HGM Class:	RI		cowardin breakdown ij manipie –
(G) Mapped Soil Units: Coker clay, Page	.,			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua		
Plot date (if any): N/A		Visual date (if any):	4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	Observed from	Peace Lane to the west
(J) DSL determination / delineation numbe	r (if any): N/A			
(K) Dominant Vegetation (Common and S	Scientific Name)			
Tree				
Shrub				
Herb				
lamp rush Juncus effusus	(likely)			
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determinat	ion: LSW? No	LSW Criteria:	none	
(O) Comments that describe the wetland, i			tions (including agricultural).	
Wetland was inaccessible, however Juncus	sp. (rush) was observed from Pe	eace Lane.		

М	EDFORD URBAN RESER	VE LOCAL WETLAND	S INVENTORY SUMMARY	' SHEET	
(A) Wetland ID: W32					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3920	Long: -122.866	Figure Number:	F-7	N/A
(C) Location: Tax Lot(s): 361W31C2	2400, 361W31C3100				
T, R, S(s): T36S R01	N Section 31C				
QQ(s): SESW					
(D) Wetland Size (acres): 0.49	(E) Cowardin Class:	PEMA		Col	vardin breakdown if multiple =
	(F) HGM Class:	Flats		001	varam breakaown ij marapie –
(G) Mapped Soil Units: Padigan clay, Pho					
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue R	River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visi	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (i	fany): WD2012-0181				
(K) Dominant Vegetation (Common and Scie Tree	entific Name)				
Shrub					
Herb					
field meadow-foxtail Alopecurus pratensis	(likely)				
(L) Primary hydrology sources: Surface flo	w, and potentially ditch.				
(N) Locally Significant Wetland Determination	: LSW? N/A	LSW Criteria:	N/A		
(O) Comments that describe the wetland, incl	uding topographic position, lar	nd uses and significant alter	ations (including agricultural).		
This wetland may connect offsite to an existing		U	(00)		

	MEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY S	HEET
(A) Wetland ID: W33				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.4011	Long: -122.867	Figure Number: F	
(C) Location: Tax Lot(s): 361W31	IB1800			
T, R, S(s): T36S R				
QQ(s): NENW				
(D) Wetland Size (acres): 0.14	(E) Cowardin Class: (F) HGM Class:	PUBFx Flats		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Coker clay, Cov		Fidis		
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No	
Plot date (if any): N/A	,	Visual date (if any		
Method: USACE; WMVC supplement		Method (if any):		
	11			
(J) DSL determination / delineation number	r (if any): N/A			
(K) Dominant Vegetation (Common and S	cientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensi	is (likley)			
(L) Primary hydrology sources: None				
(N) Locally Significant Wetland Determinati	ion: LSW? N//	LSW Criteria:		
(O) Comments that describe the wetland, in				
NWI mapped a waterbody at this location; he	owever, recent historical imagery	/ does not show inundation, a	nd, therefore, was mapped as a wet	iland.

M	EDFORD URBAN RESER		S INVENTORY SUMMARY SHEET	
(A) Wetland ID: W34				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3979	Long: -122.866	Figure Number: F-3	MWC-2
(C) Location: Tax Lot(s): 361W31B	32600			
T, R, S(s): T36S R01	1W Section 31B			
QQ(s): SENW				
	(T) Oswandin Olasan			the second second for southing to
(D) Wetland Size (acres): 0.41	(E) Cowardin Class: (F) HGM Class:	PSS1F RFT	L	owardin breakdown if multiple =
(G) Mapped Soil Units: Cove clay	(F) 110101 01035.			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue I	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? Yes	
Plot date (if any): N/A		Visual date (if any)		
Method: USACE; WMVC supplement		Method (if any):	Observed from road to	the east
(J) DSL determination / delineation number ((if any): N/A			
(K) Dominant Vegetation (Common and Sci	ientific Name)			
Tree				
balsam poplar Populus balsamifera				
Oregon ash Fraxinus latifolia				
Shrub				
willow Salix species				
Himalayan blackberry Rubus armeniacus Herb				
not field verified				
(L) Primary hydrology sources: Swanson	Creek			
(N) Locally Significant Wetland Determinatio	n: LSW? Yes	LSW Criteria:	Wildlife habitat, Water Quality, Hydrologic C	Control
(O) Comments that describe the wetland, inc				
Swanson Creek riparian wetland, closely asso	ciated with W35. Dominant spe	cies based on observations s	outh of the sample plot P04.	

M	MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET				
(A) Wetland ID: W35				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	Lat: 42.3982	Long: -122.867	Figure Number: F-3	MWC-2	
(C) Location: Tax Lot(s): 361W31B2	2500	<u> </u>			
T, R, S(s): T36S R01					
QQ(s): SENW					
(D) Wetland Size (acres): 0.66	(E) Cowardin Class:	PSS1F	Со	wardin breakdown if multiple =	
(G) Mapped Soil Units: Cove clay	(F) HGM Class:	RFT			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Riv	rer			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua			
Plot date (if any): N/A		Visual date (if any):			
Method: USACE; WMVC supplement		Method (if any):	Observed from road to t	the east	
(I) DCL determination (deline etime resulter (6). N/A				
(J) DSL determination / delineation number (i	f any): N/A				
(K) Dominant Vegetation (Common and Scie	entific Name)				
Tree					
balsam poplar Populus balsamifera					
Oregon ash Fraxinus latifolia Shrub					
black hawthorn Crataegus douglasii	willow	Salix species			
Himalayan blackberry Rubus armeniacus	Willow	Gaily species			
Herb					
field meadow-foxtail Alopecurus pratensis					
(L) Primary hydrology sources: Swanson C	reek				
(N) Locally Significant Wetland Determination	: LSW? Yes	LSW Criteria:	Wildlife habitat, Water Quality, Hydrologic Co	ontrol	
(O) Comments that describe the wetland, incl	uding topographic position land	uses and significant altera	tions (including agricultural)		
Swanson Creek riparian wetland, closely assoc					

M	EDFORD URBAN RESER	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W36				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3932	Long: -122.863	Figure Number: F-8	MWC-1
(C) Location: Tax Lot(s): 361W31D	01800, 361W31D1700			
T, R, S(s): T36S R07	1W Section 31D			
QQ(s): NWSE				
(D) Wetland Size (acres): 0.28	(E) Cowardin Class:	PEMCx		Cowardin breakdown if multiple =
	(F) HGM Class:	RI		cowardin breakdown ij manipie –
(G) Mapped Soil Units: Coker clay, Phoe	.,			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	ally confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):	Site walk through	
(I) DSI determination / delineation number	1:6 NI / A			
(J) DSL determination / delineation number ((if any): N/A	<u> </u>		
(K) Dominant Vegetation (Common and Sc	ientific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis				
Fuller's teasel Dipsacus fullonum				
(L) Primary hydrology sources: Surface fl	ow and ditch.			
(N) Locally Significant Wetland Determinatio	n: LSW? Yes	LSW Criteria:	Hydrologic Control	
(v) Locally Significant Wetland Determinatio		Low Childha		
(0) Comments that describe the watland inc	luding tonographic position. Is	and uses and significant alters	tions (including opticultural)	
(O) Comments that describe the wetland, inc This wetland incorporates a City of Medford M				
	,		·	

IV	IEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY SH	EET
(A) Wetland ID: W37				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3998	Long: -122.864	Figure Number: F-4	N/A
(C) Location: Tax Lot(s): 361W31A				
T, R, S(s): T36S R0	1W Section 31A			
QQ(s): SWNE				
(D) Wetland Size (acres): 0.12	(E) Cowardin Class:	PSS1C		Cowardin breakdown if multiple =
(D) Wettand Size (acres). 0.12	(F) HGM Class:	LFV		cowaram breakdown ij manipie –
(G) Mapped Soil Units: Coker clay	(*)************			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vise	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any)	:	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number	(if any): N/A			
(K) Dominant Vegetation (Common and Sc	ientific Name)			
Tree not field verified				<u> </u>
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: WA13				
(-, · · · · · · · · · · · · · · · · · · ·				
(N) Locally Significant Wetland Determinatio	n: LSW? N/A	LSW Criteria:	N/A	
(v) Locally significant wetland Determination		Low cincenta.	N/A	
(O) Comments that describe the wetland, ind	luding tonographic position.	and uses and significant alter	tions (including opticultural)	
This wetland is located on the west bank of w		and uses and significant after	ations (including agricultural).	
	,			

м	EDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W38				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.4033	Long: -122.863	Figure Number: F-4	MWC-3
(C) Location: Tax Lot(s): 361W31A	200			
T, R, S(s): T36S R01	W Section 30D, 31A			
QQ(s): SWSE, N	WNE, NENE			
(D) Wettend Cine (compa): 5.00		PEMCd		Country has also and if anything a
(D) Wetland Size (acres): 5.90	(E) Cowardin Class: (F) HGM Class:	RFT / SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Coker clay, Padig	. ,			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	lly confirmed? Yes	
Plot date (if any): 4/7/2015		Visual date (if any):	4/7/2015	
Method: USACE; WMVC supplement		Method (if any):	Observed from Peac	e Lane and west edge of W07
(J) DSL determination / delineation number (if any): WD2012-018	on very western exte	nt	
(K) Dominant Vegetation (Common and Sci	entific Name)			
Tree				
Shrub				
Herb				
field meadow-foxtail Alopecurus pratensis lamp rush Juncus effusus				
(L) Primary hydrology sources: Ditches an	nd surace flow			
(-, · · · · · · · · · · · · · · · · · · ·				
(N) Locally Significant Wetland Determinatio	n: LSW? Yes	LSW Criteria:	Water Quality	
(O) Comments that describe the wetland, inc This area was labelled by the City of Medford				Medford data Viewal confirmation was
made from a distance. Connected to W07 to the	ne east on Figures F-4 and F-5		in data polygon at the west end of the City of	Mediora data. Visual communation was
	-			

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET				
(A) Wetland ID: W39-A				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	at: 42.3940 Lo	ong: -122.848	Figure Number: F-10	MWC-4
(C) Location: Tax Lot(s): 361W32C10	00			
T, R, S(s): T36S R01W	Section 32C			
QQ(s): NESW, NW3	SE			
(D) Wetland Size (acres): 3.61	(E) Cowardin Class:	PSS1/PEM	C	owardin breakdown if multiple =
	(F) HGM Class:	RFT / SV	<u> </u>	PSS: 90% PEM: 10%
(G) Mapped Soil Units: Coker clay, Cove cl	ay, Padigan clay, Phoenix clay			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visually		
Plot date (if any): N/A		Visual date (if any):	4/8/2015	
Method: USACE; WMVC supplement		Method (if any):	Visually confirmed W3	9-B which is connected (E).
(J) DSL determination / delineation number (if a	any): WD2009-0470			
(K) Dominant Vegetation (Common and Scien	tific Name)			
Tree				
Oregon ash Fraxinus latifolia				
Shrub				
willow Salix species				
Herb				
spreading rush Juncus patens				
field meadow-foxtail Alopecurus pratensis				
clustered field sedge Carex praegracilis				
spreading bent Agrostis stolonifera				
(L) Primary hydrology sources: Swanson Cre	eek and surface flow			
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	Wildlife Habitat, Water Quality, Hydrologic	Control
(O) Comments that describe the wetland, includ	ding topographic position, land us	ses and significant alteratio	ns (including agricultural).	
Riparian vegetation along banks of Swanson Cre	eek. Connected to W08 and W09.			

	MEDFORD URBAN	RESERVE LOCAL WETLA	NDS INVENTORY SUMMARY SHEET	
(A) Wetland ID: W39-B				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3925	Long: -122.847	Figure Number: F-10, F-12	MWC-4
(C) Location: Tax Lot(s): 3	61W32C2400, 361W32C100			
	36S R01W Section 32, 32C			
	WSE, NESW, SESW			
(D) Wetland Size (acres): 0.97	(E) Cowardin Cla		(Cowardin breakdown if multiple =
	(F) HGM Class:	RFT	-	
(G) Mapped Soil Units: Cove cla	lý			
(H) Watershed Boundary (6th Field H	IUC): Whetstone Creek	-Rogue River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot -	Visually confirmed? Yes	
Plot date (if any): N/A		Visual date (if a		
Method: USACE; WMVC supplement		Method (if any): Swanson creek crosse	d during site visit.
	1 (16) (1)			
(J) DSL determination / delineation n	number (if any): N/A			
(K) Dominant Vegetation (Common	and Scientific Name)			
Tree				
Oregon ash Fraxinus latife				
willow Salix species				
Shrub				
none				
Herb				
clustered field sedge Carex praegr	acilis			
spreading rush Juncus pater	ns			
(L) Primary hydrology sources: S	wanson creek and surface flow			
(N) Locally Significant Wetland Deter	rmination: LSW?	Yes LSW Criter	ia: Wildlife Habitat, Water Quality, Hydrologic	Control
(O) Comments that describe the wet Swanson Creek riparian wetland, dom				
Swanson Creek npanan wetand, don	iniated by Salix Sp. (willow) and	r Fraxinus latitolia (asti). Connecte	a to w41.	

	MEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY SH	EET
(A) Wetland ID: W40				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3950	Long: -122.850	Figure Number: F-10	0 MWC-15
(C) Location: Tax Lot(s): 361W3	2C100	-		
T, R, S(s): T36S R	01W Section 32C			
QQ(s): NWSW				
(D) Wetland Size (acres): 0.29	(E) Cowardin Class: (F) HGM Class:	PEMB SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Padigan clay		31		
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vise		
Plot date (if any): N/A		Visual date (if any)	:	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation numbe	er (if any): WD2009-047	0		
(K) Dominant Vegetation (Common and S				
Tree	Scientific Name)			
Shrub				
Herb				
field meadow-foxtail Alopecurus pratens	sis (likely)			
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determinat	tion: LSW? Yes	LSW Criteria:	Water Quality	
(O) Comments that describe the wetland, i				
<0.5 acre area was mapped using DSL wet	land delineation data. It is potentia	ally connected to WU9 via a d	tcn.	

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W41				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	Lat: 42.3939	Long: -122.852	Figure Number: F-9, F-10	MWC-4	
(C) Location: Tax Lot(s): 361W32C	500, 361W32C100				
T, R, S(s): T36S R01	W Section 32C				
QQ(s): NWSW, N					
(D) Wetland Size (acres): 1.80	(E) Cowardin Class:	PSSF		Cowardin breakdown if multiple =	
(D) Wettand Size (acres). 1.00	(F) HGM Class:	SV		cowaram breakdown ij malapie –	
(G) Mapped Soil Units: Coker clay, Cove	clay, Padigan clay				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (i	f				
(K) Dominant Vegetation (Common and Sci	entific Name)				
Tree Oregon ash Fraxinus latifolia					
Cregon ash Fraxinus lationa					
Shrub					
willow Salix species					
Herb					
not field verified					
(L) Primary hydrology sources: Swanson (Trock				
(L) Finally hydrology sources. Swanson C	LIEEK				
			Mildlife Liebitet Motor Quality Ludeala	is Control	
(N) Locally Significant Wetland Determination	n: LSW? Yes	LSW Criteria:	Wildlife Habitat, Water Quality, Hydrolog	lic control	
(O) Comments that describe the wetland, incl This wetland is a part of the Swanson Creek right			ations (including agricultural).		
		Joiod to 1903-D and 1940.			

	MEDFORD URBAN	RESERVE LOCAL W	ETLANDS	INVENTORY SUMMA	RY SHEET	
(A) Wetland ID: W42						OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3946	Long: -122.85	2	Figure Number:	F-9, F-10	MWC-14
(C) Location: Tax Lot(s): 361	W32C500					
T, R, S(s): T36	S R01W Section 32C					
QQ(s): NW	SW					
(D) Wetland Size (acres): 0.58	(E) Cowardin Cla	ass: PEMCh			C	owardin breakdown if multiple =
	(F) HGM Class:	SV	I			
(G) Mapped Soil Units: Coker clay,	Padigan clay	-				
(H) Watershed Boundary (6th Field HUG	C): Whetstone Creek	-Rogue River				
(I) Sample Plot Numbers (if any):	N/A	(M) If n	o plot - Visu	ally confirmed? No		
Plot date (if any): N/A			date (if any):			
Method: USACE; WMVC supplement		Method	d (if any):			
(J) DSL determination / delineation num	nber (if any): N/A					
(K) Dominant Vegetation (Common ar Tree	nd Scientific Name)					
Shrub						
Herb						
field meadow-foxtail Alopecurus prat	ensis (likely)					
(L) Primary hydrology sources: Surf	ace flow					
(N) Locally Significant Wetland Determi	nation: LSW?	Yes LSV	N Criteria:	Wildlife Habitat, Water Q	uality, Hydrologic C	Control
(O) Comments that describe the wetlan	d, including topographic po	sition, land uses and signi	ificant altera	tions (including agricultural).	
This wetland is located north of the Swa	nson Creek riparian corridor	and is connected hydrolog	gically by sur	ace flow.	-	

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W43					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3933	Long: -122.853	Figure Number:	F-9	MWC-11
(C) Location: Tax Lot(s): 361W	32C500	-			
	R01W Section 32C				
QQ(s): NWSV					
		50015			
(D) Wetland Size (acres): 0.63	(E) Cowardin Class: (F) HGM Class:	PSS1B SV		C.	owardin breakdown if multiple =
(G) Mapped Soil Units: Padigan clay		34			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No		
Plot date (if any): N/A		Visual date (if any			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation numb	er (if any): N/A				
(K) Dominant Vegetation (Common and	Scientific Name)				
Tree					
not field verified					
Shrub					
not field verified					
Herb not field verified					
not held verhied					
(L) Primary hydrology sources: Swans	on Creek				
(N) Locally Significant Wetland Determina	ation: LSW? No	b LSW Criteria:	Wildlife Habitat, Water Qu	ality, Hydrologic (Control
(O) Comments that describe the wetland,			ations (including agricultural).		
This wetland is located south of the Swans	on Creek riparian corridor and dir	ectly abuts W41 PSS wetland			

7	MEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY SHE	ET
(A) Wetland ID: W44				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3903	Long: -122.852	Figure Number: F-11	N/A
(C) Location: Tax Lot(s): 361W32	C1700			
T, R, S(s): T36S R0				
QQ(s): SWSW				
(D) Wetland Size (acres): 0.15	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =
	(F) HGM Class:	SV		cowardin breakdown ij malapie
(G) Mapped Soil Units: Coker clay, Pad	• •			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No	
Plot date (if any): N/A		Visual date (if any		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number	(if any): N/A			
	· · ·			
(K) Dominant Vegetation (Common and So	cientific Name)			
Tree				
Shrub				
Herb				
not field verified				
(L) Primary hydrology sources: None				
(N) Locally Significant Wetland Determination	on: LSW? N/A	LSW Criteria:	N/A	
(N) LOCally Significant wetiand Determination		LJW Chiena.	N/A	<u></u>
(O) Comments that describe the wetland, in This isolated wetland is located in a pasture.		and uses and significant aiter	rations (including agricultural).	

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W45				OFWAM Grouping Code:	
	_at: 42.3893	Long: -122.853	Figure Number: F-11	N/A	
(C) Location: Tax Lot(s): 361W32C1	600, 361W32C1700	•			
T, R, S(s): T36S R01V	V Section 32C				
QQ(s): SWSW					
(D) Wetland Size (acres): 0.16	(E) Cowardin Class:	PEMCx		Cowardin breakdown if multiple =	
(b) Wettand Size (acres). 0.10	(F) HGM Class:	RI		cowaram breakaown ij malapie –	
(G) Mapped Soil Units: Coker clay, Padiga	· · /				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue F	River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (if	any): N/A				
(K) Dominant Vegetation (Common and Scie Tree	ntific Name)				
1166					
Shrub					
Herb not field verified					
(L) Primary hydrology sources: Ditch					
(N) Locally Significant Wetland Determination	: LSW? N/A	LSW Criteria:	N/A		
(O) Comments that describe the wetland, inclu					
This isolated wetland is located on a ditch line.	wapping data was derived from	n ODOT SRSAM survey in 20	004.		

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W46				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	Lat: 42.3683	Long: -122.845	Figure Number: F-19	MWC-6	
(C) Location: Tax Lot(s): 37	1W08800				
	7S R01W Section 08				
QQ(s): SV					
		DADLI			
(D) Wetland Size (acres): 1.34	(E) Cowardin Class: (F) HGM Class:	PABHh DO		Cowardin breakdown if multiple =	
(G) Mapped Soil Units: Coker clay	, Padigan clay, Water	DO			
(H) Watershed Boundary (6th Field HL		e River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visi	ually confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation nu	mber (if any): N/A				
(K) Dominant Vegetation (Common a	nd Scientific Name)				
Tree					
not field verified					
Shrub					
not field verified					
Herb					
not field verified					
(L) Primary hydrology sources:	A14, and ditch line				
(N) Locally Significant Wetland Detern	nination: LSW? Ye	s LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetla					
This wetland is located at the headwate	ers of Midway Creek (Upton Slough)	and Swanson Creek, on the ba	inks of WA14 pond inside converging arm	is of Hopkins Canal. Connected to W48.	

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W47				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3685	Long: -122.837	Figure Number: F-16, F-17, F-20, F-21	MWC-6
(C) Location: Tax Lot(s): 371W	081000, 371W092600, 371W0990	00		
T, R, S(s): T37S	R01W Section 08, 09			
	, SWNW, NWSW			
(D) Wetland Size (acres): 5.74	(E) Cowardin Class:	PEMBd	Cow	ardin breakdown if multiple =
(_)	(F) HGM Class:	RFT		
(G) Mapped Soil Units: Carney clay, 0	Coker clay, Padigan clay			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation numb	er (if any): N/A			
(K) Dominant Vegetation (Common and	Scientific Name)			
Tree				
none				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Ditche	es, streams, potential groundwate	r		
(c) Frinary Hydrology sources.	s, streams, potential groundwate			
(N) Locally Significant Wetland Determina	ation: LSW? Yes	S LSW Criteria:	Hydrologic Control	
(O) Comments that describe the wetland,	including topographic position	and uses and significant alters	tions (including agricultural)	
This wetland is located at the headwaters				

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W48				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	Lat: 42.3686	Long: -122.844	Figure Number: F-19	MWC-6	
(C) Location: Tax Lot(s): 371W08	3900				
T, R, S(s): T37S R					
QQ(s): SWNE					
· · · <u> </u>		500041			
(D) Wetland Size (acres): 0.39	(E) Cowardin Class: (F) HGM Class:	PSSC1h RFT		Cowardin breakdown if multiple =	
(G) Mapped Soil Units: Padigan clay	(F) HOW Class.				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visi	ually confirmed? No		
Plot date (if any): N/A	N/A	Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):	•		
(J) DSL determination / delineation number	r (if any): N/A				
(K) Dominant Vegetation (Common and S	cientific Name)				
Tree	•				
not field verified					
Shrub					
not field verified					
Herb					
not field verified					
(L) Primary hydrology sources: Ditch ar	id upslope wetlands				
(N) Locally Significant Wetland Determinat	ion: LSW? Yes	S LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetland, in					
This wetland is located at the headwaters of	Midway Creek (Upton Slough) a	and Swanson Creek and upstr	eam of WA14. It is connected directly to V	V46 and mapped based on NWI data.	

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W49				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3696	Long: -122.837	Figure Number: F-16, F-19, F-20	MWC-6
(C) Location: Tax Lot(s): 371W	/08900, 371W081000, 371W0980	0, 371W09900		
T, R, S(s): T37S	R01W Section 08, 09			
QQ(s): SWN	W, SWNE, SENE, L1, NWNW			
(D) Wetland Size (acres): 6.96	(E) Cowardin Class:	PSS1Cd/PEMC		Cowardin breakdown if multiple =
	(F) HGM Class:	RFT		PSS: 80% PEM: 20%
(G) Mapped Soil Units: Carney clay,	Padigan clay			
(H) Watershed Boundary (6th Field HUC)	: Whetstone Creek-Rogue	e River	_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	Illy confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation numl	ber (if any): N/A			
(K) Dominant Vegetation (Common and Tree	Scientific Name)			
not field verified				
Shrub				
willow Salix species				
Herb				
not field verified				
(L) Primary hydrology sources: Strea	m			
(N) Locally Significant Wetland Determin	ation: LSW? Ye	s LSW Criteria:	Hydrologic Control	
., , , ,			, 0	
(O) Comments that describe the wetland	, including topographic position.	land uses and significant alterat	tions (including agricultural).	
This wetland is potentially fed by nearby le				

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W50				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	Lat: 42.3715	Long: -122.840	Figure Number: F-16, F-19	MWC-6	
(C) Location: Tax Lot(s): 371W08	100, 371W081000	-			
T, R, S(s): T37S R0	01W Section 08				
QQ(s): NENE, S					
(D) Wetland Size (acres): 2.04	(E) Cowardin Class: (F) HGM Class:	PUBHx/PSS1Bh SV		Cowardin breakdown if multiple = PUB: 50% PSS: 50%	
(G) Mapped Soil Units: Carney clay, Co		54		100.30% 133.30%	
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	lly confirmed? Yes		
Plot date (if any): N/A		Visual date (if any):	4/8/2015		
Method: USACE; WMVC supplement		Method (if any):	Observed from Col	ker Butte road and parcel to the east	
(J) DSL determination / delineation number	(if any): N/A				
(K) Dominant Vegetation (Common and S	cientific Name)				
Tree					
not field verified					
Shrub					
not field verified					
Herb					
not field verified					
(L) Primary hydrology sources: Wetland	l is on banks of irrigation pond A	W13, and is connected to wetla	nd complex to the south by mapped ditch		
(N) Locally Significant Wetland Determinati	on: LSW? Yes	LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetland, ir	cluding topographic position, la	and uses and significant alterat	ions (including agricultural).		
NWI polygon re-sketched using offsite obser	vation and desktop analysis. This	s wetland abuts W51 and is surr	ounded by former orchard.		

	MEDFORD URBAN RESER	VE LOCAL WETLANDS I	NVENTORY SUMMARY SHEET	
(A) Wetland ID: W51				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3709	Long: -122.841	Figure Number: F-16, F-19	MWC-6
(C) Location: Tax Lot(s): 371W0	81000, 371W08100, 371W08900			
T, R, S(s): T37S F	R01W Section 08			
QQ(s): NENE,	SWNE, SENE			
(D) Wetland Size (acres): 0.52	(E) Cowardin Class: (F) HGM Class:	PSS1Bh/PEMB SV		Cowardin breakdown if multiple = PSS: 90% PEM: 10%
(G) Mapped Soil Units: Carney clay, C	oker clay			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	-	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visual		
Plot date (if any): N/A		Visual date (if any):	4/8/2015	
Method: USACE; WMVC supplement		Method (if any):	Observed from Coke	r Butte road and parcel to the east
(J) DSL determination / delineation numbe	er (if any): N/A			
(K) Dominant Vegetation (Common and S				
(K) Dominant Vegetation (Common and a	Scientific Name)			
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Potent	ally fed by leaking irrigation pond	(AW13)		
(N) Locally Significant Wetland Determina	tion: LSW? Yes	LSW Criteria:	Hydrologic Control	
(O) Comments that describe the wetland,	including topographic position, la	nd uses and significant alterati	ons (including agricultural).	
NWI mapped feature adjoins W50 and is ad				

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W53				OFWAM Grouping Code:	
(B) Wetland Location (Centroid):	Lat: 42.3658	Long: -122.824	Figure Number: F-22	MWC-6	
(C) Location: Tax Lot(s): 371W09	92600				
T, R, S(s): T37S R	.01W Section 09				
QQ(s): NWSE					
(D) Wetland Size (acres): 1.18	(E) Cowardin Class:	PEMBd		Cowardin breakdown if multiple =	
	(F) HGM Class:	SV			
(G) Mapped Soil Units: Carney clay	· / -	-			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River	_		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	Illy confirmed? Yes		
Plot date (if any): N/A		Visual date (if any):	4/23/2015		
Method: USACE; WMVC supplement		Method (if any):	Observed from N	Foothill Road	
(J) DSL determination / delineation numbe					
(K) Dominant Vegetation (Common and S	cientific Name)				
Tree					
not field verified					
Shrub					
not field verified					
l la ste					
Herb broad-leaf cat-tail Typha latifolia					
Fuller's teasel Dipsacus fullonum					
		canal located <300 feet east o	f the wetland and N Foothill road.		
Surface flow from N Foothill road, and	mapped ditches.				
(N) Locally Significant Wetland Determinat	ion: LSW? Yes	LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetland, i					
This wetland is located on the western footh				on aerial imagery. Teasel (Dipsacus	
fullonum) is dominant in the area and also c	reates a distinctive visual signatur	re on aerial imagery. There are	mapped ditches throughout.		

м	EDFORD URBAN RESERV	'E LOCAL WETLANDS I	NVENTORY SUMMARY SHEET	
(A) Wetland ID: W54				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3656	Long: -122.827	Figure Number: F-21, F-22	MWC-6
(C) Location: Tax Lot(s): 371W092	600			
T, R, S(s): T37S R01	W Section 09			
QQ(s): NWSE				
(D) Wetland Size (acres): 2.25	(E) Cowardin Class:	PEMB		Cowardin breakdown if multiple =
	(F) HGM Class:	SV	· · · · · · · · · · · · · · · · · · ·	
(G) Mapped Soil Units: Carney clay, Cok	.,		-	
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Ri	ver	-	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visual	y confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):	4/23/2015	
Method: USACE; WMVC supplement		Method (if any):	Observed from N Foo	thill Road
(J) DSL determination / delineation number (if anyly N/A			
(J) DSL determination 7 delineation number (if any): N/A			
(K) Dominant Vegetation (Common and Sci	entific Name)			
Tree				
Shrub				
Herb				
lamp rush Juncus effusus	(likely)			
(L) Primary hydrology sources: Surface flo	aw and notantial coop or curface	flow from wotland WE2 (thor	efore grouped in to MWC-6 OFWAM assessr	nont unit)
(L) Finnary hydrology sources. <u>Surface no</u>			erore grouped in to wwc-o OFWAW assess	
			Under la sia Canataral	
(N) Locally Significant Wetland Determination	n: LSW? Yes	LSW Criteria:	Hydrologic Control	
(O) Comments that describe the wetland, inc This wetland is located in a valley at the base				
This wettand is located in a valley at the base		usus (lamprush) creates usun	cuve signature on aenais.	
1				

ME	DFORD URBAN RESERVE	LOCAL WETLAND	SINVENTORY SUMMARY	' SHEET	
(A) Wetland ID: W55					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	at: 42.3654 L	ong: -122.830	Figure Number:	F-21	MWC-6
(C) Location: Tax Lot(s): 371W09260	0				
T, R, S(s): T37S R01W	Section 09				
QQ(s): NESW					
(D) Wetland Size (acres): 0.51	(E) Cowardin Class:	PEMBd		Com	vardin breakdown if multiple =
	(F) HGM Class:	SV		COM	
(G) Mapped Soil Units: Coker clay, Padigar	<i>、,</i>				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Rive	r			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (if a					
(K) Dominant Vegetation (Common and Scien	tific Name)				
Tree					
Shrub					
Herb					
lamp rush Juncus effusus	(likely)				
(L) Primary hydrology sources: Ditching from	m W21 and W53 to the east (ther	efore included in WMC-6	OFWAM assessment unit)		
	, , , , , , , , , , , , , , , , , , ,				
(N) Locally Significant Wetland Determination:	LSW? Yes	LSW Criteria:	Hydrologic Control		
(, ,			,		
(O) Comments that describe the wetland, inclue	ding topographic position, land u	uses and significant alter	ations (including agricultural).		
This wetland is located in a valley at the base of					

ME	EDFORD URBAN RESERVE	LOCAL WETLANDS	SINVENTORY SUMMAR	Y SHEET	
(A) Wetland ID: W56					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3662 Lo	ong: -122.831	Figure Number:	F-21	MWC-6
(C) Location: Tax Lot(s): 371W0926	00				
T, R, S(s): T37S R01V	N Section 09				
QQ(s): NWSW, NE					
				0	
(D) Wetland Size (acres): 1.87	(E) Cowardin Class: (F) HGM Class:	PEMBd SV		CON	vardin breakdown if multiple =
(G) Mapped Soil Units: Carney clay, Coke	r clay, Padigan clay	87			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue River	r			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (if	f any): N/A				
(K) Dominant Vegetation (Common and Scie	entific Name)				
Tree					
Shrub					
Horb					
Herb lamp rush Juncus effusus	(likely)				
	(- I)				
(L) Primary hydrology sources: Surface flor	w and ditches, connecting to adjace	ent wetlands (therefore	ncluded in MWC-6 OFWAM a	ssessment unit)	
(N) Locally Significant Wetland Determination	: LSW? Yes	LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetland, inclu					
This wetland is located in a valley at the base o	f Coker Butte foothill. Juncus effusi	us (lamprush) creates dis	tinctive signature on aerials.		

ME	EDFORD URBAN RESERVE	LOCAL WETLAND	SINVENTORY SUMMARY	SHEET	
(A) Wetland ID: W57					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3651 I	Long: -122.831	Figure Number:	F-21	MWC-6
(C) Location: Tax Lot(s): 371W0926	00	-			
T, R, S(s): T37S R01	V Section 09				
QQ(s): NWSW, N					
				6	
(D) Wetland Size (acres): 0.65	(E) Cowardin Class: (F) HGM Class:	PEMBd SV		COW	vardin breakdown if multiple =
(G) Mapped Soil Units: Carney clay, Coke	r clay, Padigan clay	37			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Rive	er			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any)			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number (in	f any): N/A				
(K) Dominant Vegetation (Common and Scie	entific Name)				
Tree					
Shrub					
not field verified					
Herb					
lamp rush Juncus effusus	(likely)				
	x - //				
(L) Primary hydrology sources: Surface flo	w and mapped ditches. Therefore	Included in MWC-6 OFW	AM assessment unit.		
(N) Locally Significant Wetland Determination	: LSW? Yes	LSW Criteria:	Hydrologic Control		
(O) Comments that describe the wetland, inclu-					
This wetland is located in a valley at the base of	f Coker Butte foothill. Juncus effus	sus (lamprush) creates dis	tinctive signature on aerials.		

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W61				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3368	Long: -122.819	Figure Number: F-50	LPC-1
(C) Location: Tax Lot(s): 371W	/21A1400, 371W22500			
T, R, S(s): T37S	R01W Section 21A, 21D			
QQ(s): NESE				
(D) Wetland Size (acres): 1.83	(E) Cowardin Class:	PEMh/PSSh		Cowardin breakdown if multiple =
	(F) HGM Class:	RI		PEM: 90% PSS: 10%
(G) Mapped Soil Units: Coker clay	.,			
(H) Watershed Boundary (6th Field HUC)	: Larson Creek-Bear Cree	k		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation num	ber (if any): N/A			
(K) Dominant Vegetation (Common and Tree	Scientific Name)			
Shrub				
willow Salix species (likely)				
Herb				
not field verified				
(L) Primary hydrology sources: Irriga	tion canal, and other irrigation dite	ches		
(N) Locally Significant Wetland Determin	ation: LSW? No	b LSW Criteria:	none	
(O) Comments that describe the wetland	l, including topographic position, l	and uses and significant altera	tions (including agricultural).	
A small PSS component, likely with Salix	sp. (willow), exists within this wetla	nd. It is surrounded by intensiv	e agriculture, orchards and pasture. Conn	nected to the Phoenix Canal.

Λ	IEDFORD URBAN RESE	RVE LOCAL WETLAND	S INVENTORY SUMMARY SHE	ET
(A) Wetland ID: W62				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3206	Long: -122.796	Figure Number: F-56	LSC-4
(C) Location: Tax Lot(s): 371W26	103, 371W26105			
T, R, S(s): T37S R0	1W Section 26			
QQ(s): NWSW,				
(D) Wetland Size (acres): 0.72	(E) Cowardin Class:	PSS1d		Cowardin breakdown if multiple =
	(F) HGM Class:	RFT		cowarant breakdown ij maniple –
(G) Mapped Soil Units: Carney clay, Co				
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Cree	k		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vise	ually confirmed? No	
Plot date (if any): N/A		Visual date (if any)	:	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number	(if any): N/A			
(K) Dominant Vegetation (Common and So	cientific Name)			
Tree not field verified				
Shrub				
not field verified				
Herb				
not field verified				
	line			
(L) Primary hydrology sources: Drainage	line			
/				
(N) Locally Significant Wetland Determination	on: LSW? No	LSW Criteria:	None	
(O) Comments that describe the wetland, in	cluding topographic position, I	and uses and significant alter	ations (including agricultural).	
This wetland is likely dominated by Salix sp. (willow).			

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET					
(A) Wetland ID: W63					OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3185	Long: -122.786	Figure Number:	F-57	LSC-3
(C) Location: Tax Lot(s): 371W261	04				
T, R, S(s): T37S R0	1W Section 26				
QQ(s): SWSE					
(D) Wetland Size (acres): 2.31	(E) Cowardin Class:	PEMBh		Cou	vardin breakdown if multiple =
	(F) HGM Class:	DCNP		000	
(G) Mapped Soil Units: Carney clay	()	-			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek	(
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No		
Plot date (if any): N/A		Visual date (if any):			
Method: USACE; WMVC supplement		Method (if any):			
(J) DSL determination / delineation number	(if any): N/A				
(K) Dominant Vegetation (Common and Sc	ientific Name)				
Tree					
Shrub					
not field verified					
Herb					
not field verified					
(L) Primary hydrology sources: East Late	ral Canal				
(N) Locally Significant Wetland Determination	n: LSW? No	LSW Criteria:	None		
(N) Locally Significant Wetland Determination		LSW Criteria.	None		
(O) Comments that describe the wetland, in This wetland is located between Mud Creek a				l imagery suggests	s the hydrology source may be
leakage from the canal and not from overflow					
Avenue); however, aerial imagery suggests its	s distribution is limited; therefore	e, there is low likelihood of a P	SS wetland existing here.		

ME	EDFORD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W64				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3176	Long: -122.788	Figure Number: F-57, F-62	LSC-3
(C) Location: Tax Lot(s): 371W2610	4	-		
T, R, S(s): T37S R01	V Section 26			
QQ(s): SESW, SV				
(D) Wetland Size (acres): 5.19	(E) Cowardin Class: (F) HGM Class:	PEMBh DCNP		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Carney clay, Carn		DONF		
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (in	f any): N/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree				
not field verified				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: East Latera	Canal			
(L) Primary hydrology sources: East Latera				
(N) Locally Significant Wetland Determination	: LSW? No	LSW Criteria:	None	
(N) Locally Significant Wetland Determination	. L3W! NO	LSW Citteria.	None	
(O) Comments that describe the wetland, inclusion Some willows were observed in the riparian content.				arial imageny suggests its distribution is
limited; therefore, there is low likelihood of a PS		congua (narrow icar willow), v		

	MEDFORD URBAN F	RESERVE LOCAL WETLANI	DS INVENTORY SUMMARY SHEET	
(A) Wetland ID: W66				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3074	Long: -122.791	Figure Number: F-66	BCS-11
(C) Location: Tax Lot(s): 371	W35126			
T, R, S(s): T37	S R01W Section 35			
QQ(s): NW3	SW, NESW			
(D) Wetland Size (acres): 0.79	(E) Cowardin Cla	ss: PEMCd		Cowardin breakdown if multiple =
	(F) HGM Class:	RFT		cowaram breakaown y manipre
(G) Mapped Soil Units: Coker clay,	Padigan clay			
(H) Watershed Boundary (6th Field HUC	C): Larson Creek-Bea	ır Creek		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vi	sually confirmed? No	
Plot date (if any): N/A		Visual date (if an		
Method: USACE; WMVC supplement		Method (if any):	Not clearly observed from Santa Barbara I	Drive (wetland W13 was obvious)
(1) DSL datermination (delineation num				
(J) DSL determination / delineation nun				
(K) Dominant Vegetation (Common an	nd Scientific Name)			
Tree				
none				
Shrub				
none				
Herb				
field meadow-foxtail Alopecurus prate	ensis			
······································				
(L) Primary hydrology sources: Floo	od irrigation run-off from East	Lateral Canal		
(N) Locally Significant Wetland Determi	ination: LSW?	Yes LSW Criteria:	Within 1/4 mile of Larson Creek (water qu	ality limited stream)
(O) Comments that describe the wetlan				
-	vious wetland signature was	observed from the adjacent road; h	owever, this NWI mapped feature has been reta	ained. It is near W13 and connected to
Larson Reservoir (AW.)				

м	EDFORD URBAN RESER	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	Г
(A) Wetland ID: W68				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3035	Long: -122.794	Figure Number: F-66	BCS-3
(C) Location: Tax Lot(s): 371W3560)2			
T, R, S(s): T37S R01	W Section 35			
QQ(s): L 4				
(D) Wetland Size (acres): 0.73	(E) Cowardin Class:	PEMB		Cowardin breakdown if multiple =
(b) Weitand Olze (acres). 0.75	(F) HGM Class:	SV		cowarain breakdown ij malapie –
(G) Mapped Soil Units: Brader-Debenger	()			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (i	formula NI/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree not field verified				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Groundwa	ter or precipitation			
(N) Locally Significant Wetland Determinatior	n: LSW? No	LSW Criteria:	none	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
(O) Comments that describe the wetland, incl	uding tonographic position la	nd uses and significant altera	tions (including agricultural)	
This wetland is located on a residential parcel,	potentially fed by pond leakage			ar Creek tributary. No obvious active
adjoining agriculture. Likely presence of oaks o	on site.			

ME	DFORD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	r
(A) Wetland ID: W69				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	.at: 42.3039	Long: -122.804	Figure Number: F-68	N/A
(C) Location: Tax Lot(s): 371W34410)2			
T, R, S(s): T37S R01W	/ Section 34			
QQ(s): L 12				
(D) Wetland Size (acres): 0.16	(E) Cowardin Class:	PUBFx		Cowardin breakdown if multiple =
(D) Weiland Size (acres): 0.16	(F) HGM Class:	SV		Cowaram breakdown ij multiple =
(G) Mapped Soil Units: Brader-Debenger	(.)			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visual	ly confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(I) DSI determination / delineation muscless (if				
(J) DSL determination / delineation number (if				
(K) Dominant Vegetation (Common and Scie	ntific Name)			
Tree				
none				
Shrub				
none				
Herb				
field meadow-foxtail Alopecurus pratensis	(likely)			
(L) Primary hydrology sources: Precipitatio	n			
(N) Locally Significant Wetland Determination:	LSW? N/A	LSW Criteria:	N/A	
(O) Comments that describe the wetland, inclu			ions (including agricultural).	
This wetland was mapped using NWI data. A fai	int signature was present in th	e mown field.		

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET				
(A) Wetland ID: W70			OFWAM Grouping Code:	
(B) Wetland Location (Centroid): Lat: 42.2922	Long: -122.823	Figure Number: F-74	BCS-4	
(C) Location: Tax Lot(s): 381W04400, 381W04501				
T, R, S(s): T38S R01W Section 04				
QQ(s): NWSE				
(D) Wetland Size (acres): 2.32 (E) Cowardin Class:	PSS1Cd	(owardin breakdown if multiple =	
(E) Gowardin Glass: (F) HGM Class:	RI		owaram breakdown ij mattiple –	
(G) Mapped Soil Units: Darow silty clay loam, Medford silty clay loam, Pa	digan clay	-		
(H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek				
(I) Sample Plot Numbers (if any): N/A	(M) If no plot - Visually	confirmed? Yes		
Plot date (if any): N/A	Visual date (if any):	4/20/2015		
Method: USACE; WMVC supplement	Method (if any):	Observed from golf co	urse to the north,	
(J) DSL determination / delineation number (if any): N/A		near AW27 pond		
(K) Dominant Vegetation (Common and Scientific Name)				
Tree not field verified				
Shrub				
Willow species Salix species				
Herb				
not field verified				
(L) Primary hydrology sources: Ditch inflow				
(N) Locally Significant Wetland Determination: LSW? Yes	LSW Criteria:	Water Quality, Hydrologic Control		
(N) Locally Significant wetland Determination: LSW?	LSW Criteria:	Water Quality, Hydrologic Control		
		<i>.</i>		
(O) Comments that describe the wetland, including topographic position, lan This NWI mapped feature is located east of I-5 in flood irrigated pasture, with east of I-5 in flood irrigated pasture.				
This two mapped realtie is located east of Po in flood inigated pastere, with e	contensive unching throughout.			

ME	EDFORD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W71				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.2917	Long: -122.825	Figure Number: F-74	BCS-4
(C) Location: Tax Lot(s): 381W0440	0	-		
T, R, S(s): T38S R01	N Section 04			
QQ(s): NWSE, SV				
(D) Wetland Size (acres): 2.51	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =
(D) Wettand Size (acres). 2.51	(F) HGM Class:	SV		cowaram breakdown ij manipie –
(G) Mapped Soil Units: Darow silty clay lo	am, Medford silty clay loam, Pa			
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):	•	
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (if	f any): N/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree				
Shrub				
not field verified				
Herb				
field meadow-foxtail Alopecurus pratensis	(likely)			
(L) Primary hydrology sources: Flood irriga	ation runoff			
(N) Locally Significant Wetland Determination	: LSW? Yes	LSW Criteria:	Water Quality, Hydrologic Control	
(O) Comments that describe the wetland, inclu				
This wetland is located on the southwest edge polygon from ODOT SRSAM survey in 2004 to			out. Limited outlet exists due to I-5 border	ring the western edge. SWCA edited

	MEDFORD URBAN RES	ERVE LOCAL WETLAND	S INVENTORY SUMMARY S	HEET
(A) Wetland ID: W72				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.2926	Long: -122.827	Figure Number: F-	-74 BCS-4
(C) Location: Tax Lot(s): 381W	04400	-		
T, R, S(s): T38S	R01W Section 04			
QQ(s): NESW				
		DEMO		Committee to a state of the subtists
(D) Wetland Size (acres): 2.28	(E) Cowardin Class: (F) HGM Class:	PEMC SV		Cowardin breakdown if multiple =
(G) Mapped Soil Units: Medford silty	clay loam, Padigan clay	01		
(H) Watershed Boundary (6th Field HUC):	· · · ·	eek		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Vis	ually confirmed? No	
Plot date (if any): N/A		Visual date (if any		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation numb	per (if any): N/A			
(K) Dominant Vegetation (Common and	Scientific Name)			
Tree				
balsam poplar Populus balsamife	əra			
Shrub				
willow Salix species				
Herb				
not field verified				
(L) Primary hydrology sources: Flood	irrigation runoff			
(N) Locally Significant Wetland Determina	ation: LSW? Y	es LSW Criteria:	Water Quality, Hydrologic Cont	crol
(O) Comments that describe the wetland,	, including topographic position	, land uses and significant alter	ations (including agricultural).	
This wetland is from NWI map data and is	located east of the I-5 corridor. I	t is interconnected with W71 (po	lygon from ODOT SRSAM 2004 su	urvey) and is adjoined to WA23 and WA24. Salix
sp. and Populus sp. (cottonwood) observed	d generally to the south from the	golf course. Connected to W7	1.	

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	NVENTORY SUMMARY SHEET	
(A) Wetland ID: W74				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.2950	Long: -122.826	Figure Number: F-72, F-74	BCS-10
(C) Location: Tax Lot(s): 381W04	400			
T, R, S(s): T38S R(01W Section 04			
QQ(s): SWNE,				
(D) Wetland Size (caree): 5.02	(E) Cowardin Class	DEMO		mendia has alabara if any tinto
(D) Wetland Size (acres): 5.83	(E) Cowardin Class: (F) HGM Class:	PEMC SV	60	wardin breakdown if multiple =
(G) Mapped Soil Units: Brader-Debeng	er, Coker clay, Padigan clay	01	—	
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Cree	ĸ		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
	116 NI / A			
(J) DSL determination / delineation number				
(K) Dominant Vegetation (Common and S	cientific Name)			
Tree none				
Shrub				
Herb field meadow-foxtail Alopecurus pratensi				
field meadow-foxtail Alopecurus pratensi	s (likely)			
(L) Primary hydrology sources: Ditch				
(N) Locally Significant Wetland Determinati	on: LSW? Yes	LSW Criteria:	Wildlife Habitat, Fish Habitat, Hydrologic Con	trol
(,,, _,				
(O) Comments that describe the wetland, in	ocluding tonographic position	and uses and significant alters	tions (including agricultural)	
		<u> </u>	he parcel. It has potential for connection to WA25	to the east. It has outflow to the
west via a ditch.				

м	EDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W78				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3532	Long: -122.769	Figure Number: F-38, F-39	DRC-1
(C) Location: Tax Lot(s): 371W133	00			
T, R, S(s): T37S R01	W Section 13			
QQ(s): SENW				
(D) Wetland Size (acres): 1.32	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =
(-,	(F) HGM Class:	RFT		unknown
(G) Mapped Soil Units: McMullin-Rock ou	utcrop complex			
(H) Watershed Boundary (6th Field HUC):	Lower Antelope Creek			
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number ((if any): N/A			
(K) Dominant Vegetation (Common and Sci Tree	entific Name)			
not field verified				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Drainage				
<u></u>				
(N) Locally Significant Wetland Determination	n: LSW? Yes	LSW Criteria:	Wildlife Habitat	
(N) Locally Significant Wetland Determination	1. LJW: 183	Low chtena.	Withine Habitat	
(O) Comments that describe the wetland, inc	luding tonographic position. I	and uses and significant alters	tions (including agricultural)	
Located in tributary to Dry Creek	ruding topographic position, is	and uses and significant aftera	itions (including agricultural).	
1				

(A) Wetland ID: <u>W79</u> OFWAM Grouping Code:: (B) Wetland Location (Centroid): Lat: 42.2897 Long: -122.826 Figure Number: F-74 BCS-5 (C) Location: Tax Lot(s): 381W04401 BCS-5 BCS-5 BCS-5 (C) Location: Tax Lot(s): 381W04401 BCS-5 BCS-5 BCS-5 (D) Wetland Size (acres): 2.82 (E) Cowardin Class: PFO1B/R3UB Cowardin breakdown if multiple = unknown (G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel unknown unknown (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A Method (if any): 0bserved from pedestrian/bike path on southern edge of feature (J) DSL determination / delineation number (if any): N/A Method (if any): Observed from pedestrian/bike path on southern edge of feature (K) Dominant Vegetation (Common and Scientific Name) Tree Balasm poplar Populus balsamilera Shrub Salix sessifie/dai Salix s
(C) Location: Tax Lot(s): 381W04401
T, R, S(s): T38S R01W Section 04 QQ(s): NESW, SWSE (D) Wetland Size (acres): 2.82 (E) Cowardin Class: PFO1B/R3UB Cowardin breakdown if multiple = unknown (G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel unknown (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek unknown (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A Visual date (if any): 4/21/2015 Method: USACE; WMVC supplement Method (if any): Observed from pedestrian/bike path on southern edge of feature (J) DSL determination / delineation number (if any): N/A Visual Ate (if any): Observed from pedestrian/bike path on southern edge of feature (K) Dominant Vegetation (Common and Scientific Name) Tree Exercise Exercise Scouler's willow Salix sessilifolia Salix sessilifolia Herb
QQ(s): NESW, SWSE (D) Wetland Size (acres): 2.82 (E) Cowardin Class: PFO1B/R3UB Cowardin breakdown if multiple = (G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel unknown (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek unknown (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Plot date (if any): N/A Visual date (if any): 4/21/2015 Method: USACE; WMVC supplement Method (if any): Observed from pedestrian/bike path on southern edge of feature (J) DSL determination / delineation number (if any): N/A N/A Visual date (if any): Observed from pedestrian/bike path on southern edge of feature Tree Shrub Salix scouleriana Salix scouleriana Salix sessilifolia Scouler's willow Salix sessilifolia Salix sessilifolia Herb
QQ(s): NESW, SWSE (D) Wetland Size (acres): 2.82 (E) Cowardin Class: PFO1B/R3UB Cowardin breakdown if multiple = (G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel unknown (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek unknown (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Plot date (if any): N/A Visual date (if any): 4/21/2015 Method: USACE; WMVC supplement Method (if any): Observed from pedestrian/bike path on southern edge of feature (J) DSL determination / delineation number (if any): N/A N/A Visual date (if any): Observed from pedestrian/bike path on southern edge of feature Tree Shrub Salix scouleriana Salix scouleriana Salix sessilifolia Scouler's willow Salix sessilifolia Salix sessilifolia Herb
(F) HGM Class: RFT unknown (G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A Watershed Soundary (6th Field HUC): Larson Creek-Bear Creek (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A Method (if any): 4/21/2015 Method: USACE; WMVC supplement MA Method (if any): Observed from pedestrian/bike path on southern edge of feature (J) DSL determination / delineation number (if any): N/A Method Method Method Method Tree Soundary Souldate (if any): Souldate (if any): Souldate (if any): Souldate (if any): Method Shrub Salix secouleriana Salix secouleriana Salix sessilfolia Method Salix sessilfolia Herb Salix sessilfolia Salix sessilfolia Salix sessilfolia Salix sessilfolia
(F) HGM Class: RFT unknown (G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A Watershed Soundary (6th Field HUC): Larson Creek-Bear Creek (I) Sample Plot Numbers (if any): N/A (M) If no plot - Visually confirmed? Yes Visual date (if any): N/A Method (if any): 4/21/2015 Method: USACE; WMVC supplement MA Method (if any): Observed from pedestrian/bike path on southern edge of feature (J) DSL determination / delineation number (if any): N/A Method Method Method Method Tree Soundary Souldate (if any): Souldate (if any): Souldate (if any): Souldate (if any): Method Shrub Salix secouleriana Salix secouleriana Salix sessilfolia Method Salix sessilfolia Herb Salix sessilfolia Salix sessilfolia Salix sessilfolia Salix sessilfolia
(G) Mapped Soil Units: Brader-Debenger, Camas-Newberg-Evans, Medford silty clay loam, Pits, gravel (H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek (I) Sample Plot Numbers (if any): N/A Plot date (if any): N/A Wethod: USACE; WMVC supplement (M) If no plot - Visually confirmed? Yes (J) DSL determination / delineation number (if any): N/A (K) Dominant Vegetation (Common and Scientific Name) Method (if any): Tree
(H) Watershed Boundary (6th Field HUC): Larson Creek-Bear Creek (I) Sample Plot Numbers (if any): N/A Plot date (if any): N/A Wethod: USACE; WMVC supplement (M) If no plot - Visually confirmed? Yes (J) DSL determination / delineation number (if any): N/A (K) Dominant Vegetation (Common and Scientific Name) Method (if any): Tree Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb Salix sessilifolia
Plot date (if any): N/A Method: USACE; WMVC supplement Visual date (if any): 4/21/2015 (J) DSL determination / delineation number (if any): N/A (K) Dominant Vegetation (Common and Scientific Name) Method Tree Visual samifera balsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana Salix sessilifolia Herb Herb
Plot date (if any): N/A Method: USACE; WMVC supplement Visual date (if any): 4/21/2015 (J) DSL determination / delineation number (if any): N/A (K) Dominant Vegetation (Common and Scientific Name) Method Tree Visual samifera balsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana Salix sessilifolia Herb Herb
(J) DSL determination / delineation number (if any): N/A (K) Dominant Vegetation (Common and Scientific Name) Tree balsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb
(K) Dominant Vegetation (Common and Scientific Name) Tree balsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb Herb
(K) Dominant Vegetation (Common and Scientific Name) Tree balsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb Herb
Tree Dalsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb Herb
balsam poplar Populus balsamifera Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb Ferb
Shrub Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb Ferb
Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb
Scouler's willow Salix scouleriana sessile-leaf willow Salix sessilifolia Herb
Herb
Himalayan blackberry Rubus armeniacus reed canary grass Phalaris arundinacea
(L) Primary hydrology sources: Bear Creek
(N) Locally Significant Wetland Determination: LSW? Yes LSW Criteria: Wildlife Habitat, Fish Habitat
(O) Comments that describe the wetland, including topographic position, land uses and significant alterations (including agricultural).
This riparian wetland along Bear Creek is connected to wetland W18. It was originally delineated by the ODOT SRSAM survey in 2004. Impenetrable riparian and blackberry vegetation
prevented collection of a sample plot; however, the wetland was visually confirmed from the southern boundary on the Greenway path.

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY SHEE	ET
(A) Wetland ID: W81				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3333	Long: -122.903	Figure Number: F-87	N/A
(C) Location: Tax Lot(s): 372W2	34700			
T, R, S(s): T37S F	R02W Section 23			
QQ(s): SWSE				
(D) Wetland Size (acres): 0.09	(E) Cowardin Class:	PEMB		Cowardin breakdown if multiple =
	(F) HGM Class:	SV		cowarant breakdown ij manapie –
(G) Mapped Soil Units: Coleman loam	, Gregory silty clay loam, Medfor	d silty clay loam		
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Cree	k		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation numbe	er (if any): N/A			
(K) Dominant Vegetation (Common and S Tree	Scientific Name)			
not field verified 0				
Shrub				
not field verified 0				
Herb				
not field verified 0				
(L) Primary hydrology sources: Runoff				
(N) Locally Significant Wetland Determinat	tion: LSW? N//	A LSW Criteria:	N/A	
(O) Comments that describe the wetland,	including topographic position.	and uses and significant altera	tions (including agricultural).	
This wetland polygon was derived from City				not visible from vantage point on Maple Park
Drive.				

M	EDFORD URBAN RESERV	E LOCAL WETLANDS	INVENTORY SUMMARY SHEET	
(A) Wetland ID: W82				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.4019	Long: -122.881	Figure Number: F-1, F-2	MWC-7
(C) Location: Tax Lot(s): 362W36A	102, 362W36A103, 362W36A100,	, 362W36A104		
T, R, S(s): T36S R02	W Section 36A			
QQ(s): NWNE, N	ENE			
(D) Wetland Size (acres): 37.15	(E) Cowardin Class:	PEMA		owardin breakdown if multiple =
	(F) HGM Class:	Flats		
(G) Mapped Soil Units: Agate-Winlo comp	()			
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Rive	/er		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	ally confirmed? Yes	
Plot date (if any): N/A		Visual date (if any):	• •	
Method: USACE; WMVC supplement		Method (if any):	Vernal pool characteristics observed from di	rt road along southern edge
(J) DSL determination / delineation number (i	if any): N/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree oak Quercus species	(likely)			
Shrub	(
Herb				
field meadow-foxtail Alopecurus pratensis	(likely)			
not field verified				
(L) Primary hydrology sources: Precipitati	on			
(L) Filling Hydrology sources. Treapitati				
(N) Locally Significant Wetland Determinatior	n: LSW? Yes	LSW Criteria:	Wildlife Habitat, Fish Habitat, Water Quality,	. Hvdrologic Control
(,			Wetland of Special Interest for Protection (ra	· •
			Welland of Special Interest for Protection (re	
(O) Comments that describe the wetland, incl	uding topographic position land	uses and significant altera	tions (including agricultural).	
Vernal pool/wetland mosaic mapped by the Ag	ate Desert Vernal Pool Planning T northwest, based on aerial and Lil	Technical Advisory Committ	tee (TAC 2000). The approximate percentage of ature crosses into the mapped 100-year floodpla	

		MEDF		BAN RESERVE LC	CAL WETLANDS	INVENTORY SUMM	ARY SHEET	
(A) Wetland ID: W85								OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat:	42.4016	Long	: -122.872	Figure Number:	F-2, F-3	MWC-2
(C) Location:	Tax Lot(s):	361W31B1600), 361W31B [,]	1300, 361W31B700				
		T36S R01W S						
		NWNW						
	N 0 74							
(D) Wetland Size (acre	s): 0.71		(E) Coward (F) HGM C		PSS1C/PEMC RFT			Cowardin breakdown if multiple = PSS: ~90% PEM: ~10%
(G) Mapped Soil Units:	Cove c	lav		ass.				13330% TEM10%
(H) Watershed Boundar			Whetstone	Creek-Rogue River				
(I) Sample Plot Number	s (if any):		N/A		(M) If no plot - Visual		es	
	N/A		.,,,		Visual date (if any):		/8/2015	
Method: USACE; WMV0	C supplemer	nt			Method (if any):			ved from Peace Lane to the east.
(J) DSL determination /	delineation	number (if an	y):	N/A	_			
(K) Dominant Vegetati	on (Commo	on and Scienti	fic Name)					
Tree								
Oregon ash	Fraxinus la							
balsam poplar	Populus ba	lsamifera						
Shrub Scouler's willow	Salix scoule	riana		Himalayan blackberry	Pubus armoniacus			
black hawthorn	Crataegus			Timalayan biackberry	Rubus anneniacus			
Herb	g							
not field verified	0							
(L) Primary hydrology s	ources:	Swanson Cree	k					
(-,								
(N) Locally Significant V	Vetland Det	ermination:	LSW?	Yes	LSW Criteria:	Wildlife habitat, Water	Quality, Hydrolog	ic Control
., , , ,								
(O) Comments that des	cribe the w	atland includir	ng tonogran	nic position land uses	and significant alterat	ions (including agricultu	ral)	
Riparian wetland along								he west.
1								

м	EDFORD URBAN RESERV	/E LOCAL WETLANDS	INVENTORY SUMMARY	SHEET
(A) Wetland ID: W86				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.4021	Long: -122.876	Figure Number:	F-2 MWC-2
(C) Location: Tax Lot(s): 361W31B	1300, 361W31B700, 361W31B14	400, 361W31B1500, 361W3	1B600, 362W36A102	
T, R, S(s): T36S R01	W Section 31B, T36S R02W Sec	tion 36A		
QQ(s): NWNW, N				
(D) Watland Size (corec): 4.97	(E) Cowardin Class			Coursedin brookdown if multiple
(D) Wetland Size (acres): 1.87	(E) Cowardin Class: (F) HGM Class:	PSS1C/PEMC RFT		Cowardin breakdown if multiple = PSS: ~90% PEM: ~10%
(G) Mapped Soil Units: Cove clay				
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue Ri	ver		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (i	fomula N/A			
()) DSL determination / delineation number (i	fany): N/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree				
Shrub				
Scouler's willow Salix scouleriana				
Himalayan blackberry Rubus armeniacus Herb				
not field verified				
(L) Primary hydrology sources: Swanson (Trock			
(L) Primary hydrology sources	LIEEK			
	10110			
(N) Locally Significant Wetland Determination	n: LSW? Yes	LSW Criteria:	Wildlife Habitat, Fish Habitat,	Water Quality, Hydrologic Control
(O) Comments that describe the wetland, incl				or was observed from a distance along the dirt road
that borders the southern edge of the vernal po				
			•	

	MEDFORD URBAN RESE	RVE LOCAL WETLANDS	INVENTORY SUMMARY S	HEET
(A) Wetland ID: W87				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3960	Long: -122.862	Figure Number: F	8 MWC-2
(C) Location: Tax Lot(s): 361W	/31D1200, 361W31D1300			
T, R, S(s): T36S	R01W Section 31D			
QQ(s): NWS	E			
(D) Wetland Size (acres): 0.42	(E) Cowardin Class:	PEMC/PSS1C		Cowardin breakdown if multiple =
	(F) HGM Class:	RFT		PSS: ~90% PEM: ~10%
(G) Mapped Soil Units: Cove Clay				
(H) Watershed Boundary (6th Field HUC)	: Whetstone Creek-Rogue	River		
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation num	ber (if any): WD2002-00	10		
(K) Dominant Vegetation (Common and Tree	d Scientific Name)			
Shrub				
not field verified 0				
Herb				
not field verified				
(L) Primary hydrology sources: Swan	son Creek			
(N) Locally Significant Wetland Determin	ation: LSW? Yes	s LSW Criteria:	Wildlife Habitat, Water Quality	, Hydrologic Control
		I banks of Swanson Creek, whe	ere riparian vegetation is largely ab	osent. Surrounding land use is pasture land.
Connected to W88 via culvert under fill ro	ad in pasture.			

	MEDI	FORD URB/	AN RESERVE LC	CAL WETLANDS	INVENTORY SUMMAR	RY SHEET	
(A) Wetland ID: W88							OFWAM Grouping Code:
(B) Wetland Location (Centroi	d): Lat:	42.3963	Lonç	g: -122.860	Figure Number:	F-8	MWC-2
(C) Location: Tax Lot	t(s): 361W31D1000	0, 361W31D90	00	<u>-</u>			
	S(s): T36S R01W S						
	Q(s): NESE, NWSE						
			0			/	the former of the southing to
(D) Wetland Size (acres): 0.3	35	(E) Cowardir (F) HGM Clas		PSS1C/PEMC RFT			Cowardin breakdown if multiple = Inknown
(G) Mapped Soil Units: Co	ove clay	(F) Hom Old.	55.			<u> </u>	
(H) Watershed Boundary (6th	•	Whetstone C	reek-Rogue River		_		
(I) Sample Plot Numbers (if any	y):	N/A		(M) If no plot - Visua	Ily confirmed? No		
Plot date (if any): N/A				Visual date (if any):			
Method: USACE; WMVC supple	ement			Method (if any):			
(1) DOL data we institute / doling	·	х. х	. / .				
(J) DSL determination / delinea	ation number (if an	y): IN	I/A				
(K) Dominant Vegetation (Cor	mmon and Scientif	fic Name)					
Tree							
	us latifolia Is balsamifora						
balsam poplar Populu Shrub	ıs balsamifera						
	couleriana	b	lack hawthorn	Crataegus douglasii			
	gus douglasii			0			
Herb	<u> </u>						
not field verified							
(L) Primary hydrology sources:	Swanson Cree	k					
		_					
(N) Locally Significant Wetland	Determination:	LSW?	Yes	LSW Criteria:	Wildlife Habitat, Water Qu	uality, Hydrologic	Control
(O) Comments that describe th							
Riparian wetland along Swanso Connected to W87 via culvert u			ion is based on inspe	ection of the corridor ne	ear sample plot P04. The adj	joining land uses	ncludes pasture and industrial.
CUIMECIEU IU WOT VIA CUIVEIT U	nuel nii iuau ni pas	luie.					

MEDFORD URBAN RESERVE LOCAL WETLANDS INVENTORY SUMMARY SHEET							
(A) Wetland ID: W89				OFWAM Grouping Code:			
(B) Wetland Location (Centroid):	Lat: 42.3665	Long: -122.834	Figure Number:	F-20 N/A			
(C) Location: Tax Lot(s): 371W09	2600	-					
T, R, S(s): T37S R0	1W Section 9						
QQ(s): NWSW							
(D) Wetland Size (acres): 0.11	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =			
	(F) HGM Class:	SV		cowaram breakdown ij manipie –			
(G) Mapped Soil Units: Carney clay	(,,						
(H) Watershed Boundary (6th Field HUC):	Whetstone Creek-Rogue	River					
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visu	ally confirmed? No				
Plot date (if any): N/A		Visual date (if any)					
Method: USACE; WMVC supplement		Method (if any):					
(J) DSL determination / delineation number	(if any): N/A						
(K) Dominant Vegetation (Common and So	cientific Name)						
Tree							
Shrub							
Herb							
field meadow-foxtail Alopecurus pratensis	s (likely)						
(L) Primary hydrology sources: Surface f	low						
(N) Locally Significant Wetland Determination	on: LSW? N/A	LSW Criteria:	none				
			lione				
(O) Comments that describe the wetland, in	duding topographic position l	and uses and significant alter	tions (including agricultural)				
NHD maps this feature as a waterbody, and I				sonally inundated PEM wetland.			
	•		,	,			

ME	EDFORD URBAN RESER	VE LOCAL WETLANDS	INVENTORY SUMMARY SH	IEET
(A) Wetland ID: W90				OFWAM Grouping Code:
(B) Wetland Location (Centroid):	Lat: 42.3191	Long: -122.907	Figure Number: F-8	86 N/A
(C) Location: Tax Lot(s): 372W26C5	5300	•		
T, R, S(s): T37S R01	N Section 26			
QQ(s): SESW				
(D) Wetland Size (acres): 0.10	(E) Cowardin Class:	PEMC		Cowardin breakdown if multiple =
(D) Weitand Size (acres). 0.10	(F) HGM Class:	SV		cowarant breakdown ij manipie –
(G) Mapped Soil Units: Gregory silty clay				
(H) Watershed Boundary (6th Field HUC):	Larson Creek-Bear Creek		_	
(I) Sample Plot Numbers (if any):	N/A	(M) If no plot - Visua	Ily confirmed? No	
Plot date (if any): N/A		Visual date (if any):		
Method: USACE; WMVC supplement		Method (if any):		
(J) DSL determination / delineation number (i	fany): N/A			
(K) Dominant Vegetation (Common and Scie	entific Name)			
Tree not field verified				
Shrub				
not field verified				
Herb				
not field verified				
(L) Primary hydrology sources: Surface flo	14/			
	vv			
(N) Locally Significant Wetland Determination	: LSW? N/A	LSW Criteria:	2020	
(N) Locally Significant Wetland Determination	I. LSW? IN/A	LSW Criteria:	none	
(O) Comments that describe the wetland, incl The City has delineated this as a waterbody, ho				in a paricultural field or pasture
The only has defineded this as a waterbody, he	Swever aerial imagery suggest			in a agricultural nelo or pasture.

Appendix E

OFWAM Wetland Characterization Questions, Function Answer Sheets, and Function and Condition Summary Sheets This page intentionally left blank.

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7) a. Urban or urbanizing (mix of urban, agriculture and forest uses).

- b. Agriculture (farming, ranching or grazing).
 - c. Forested or natural area.

b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b Rogue River is outside of Study Area

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

_	e. One er mere apeaeam	reaches are neted in cevere water quality condition.		
	а	Is upstream of Rogue River		
Wet	Netland Structure and Landscape			

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

-					
		a. <20%	b. bet. 20% & 50%	c. >50%	1
	1. Open Space				1
	2. Agriculture				1
	3. Exclusive Forest Use		С		1
	4. Developed uses				1
	5. Other				1
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	С]	
	b. Agriculture			-	
	c. Developed uses				
15		t is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	c. Exclusive Forest Use		а]	
	b. Agriculture			J	
	a. Developed uses				
16	•	sting land use within 500	feet of the wetland on the	e downstream or down	-slope edge of the
	wetland?	g			
		a. <20%	b. bet. 20% & 50%	c. >50%	1
	1. Open Space			0.70070	1
	2. Agriculture				1
	3. Exclusive Forest Use		see next question		1
	4. Developed uses				1
	5. Other				1
		is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v				o miloti otalini or
	a. Developed uses		а	1	
	b. Agriculture		ŭ	J	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla				
``I	a		b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	C.	ed to a stream, lake, or po		0. < 0.0 00103	ļ
10		a. connected by surface		c. not connected,	
	b	-		no water bodies	
	5	int /ner stream)		within 1 mile	

19 Is all or part of the wetland located within the 100	0.90 year floodplain or within an enclosed basin?
---	---

|--|

Wetland Habitat

21	What is percentage wetla	and area by Cowardin cla	iss (10% or more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
		a. 3 or 4	b. 2	c. 1	
21			vegetation cover (a.H>60	%/b.M/c.L<60%)?	b
	What is the dominant we				
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	С		only (EM w/ water or	wet meadow (EM)	
			OW)		
21	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
24	a	a. high	b. moderate	c. low	
26			edge is bordered by uplan		r at least 25ft foot w
20		a. >40%	b. bet. 10% & 40%	c. <10%	a least zon leet w
27	c How is the wetland conne		D. Det. 10% & 40%	C. <10%	I.
21	How is the wetland conne		lk wet eenweeteel		
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	ļ
28	Estimate area of unveget				1.
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	urban
	heries Habitat				
29	Are fish present in a stre				
		a. salmon, trout or	-	c. no species are	
	<u>_</u>	sensitive species are	present at some time	present at any time	
	С	present at some time	during the year	during the year	
		during the year			
	Streams connected to t	he wetland			
30	What is the physical char	acter of the stream chan	nel?		
		a. natural channel, or	b.only portions of stream	c. extensively	
		modified portions are	modified	modified or	
		returning to a natural		confined in a non-	
		channel		vegetated channel	
				or pipe	
31	What percentage of the s	stream is shaded by ripar	ian vegetation?		
0.		a. >75%	b. bet. 50% & 75%	c. <50%	
32	What percentage of the s		structures such as large v		
52	floating/submerged vege		-	voody deblis,	
				0 100/	
	Lakaa ar nanda (antina	a. >25%	b. bet. 10% & 25%	c. <10%	i.
<u> </u>	Lakes or ponds (entire	•	• •		
33	Does the lake or pond co				
•		a. yes	b. cannot be determined		
34	What percentage of the s		water's edge by forested		ation?
		a. 60% or more	b. bet. 20% & <60%	c. <20%	1

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	b	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ing or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	C. NO
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

(bold questions =field; office review important for 15, 16, 26)

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.

Wetland Structure and Landscape

а

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

				n	
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use				
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet of	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet of	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			4	
	a. Developed uses				
16		sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space			-	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet of	the wetland on the d	ownstream or down-
	slope edge of the wetland	d?			
	a. Developed uses		b		
	b. Agriculture			4	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	a	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte			1	1
ļ		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	

int./per. stream)

within 1 mile

19 Is all or part of the wetland located within the 100	0-year floodplain or within an enclosed basin?
---	--

	а	a. yes	b. no
--	---	--------	-------

Wetland Habitat

21 What is percentage wetlan	nd area by Cowardin class ((10% or more)?
------------------------------	-----------------------------	----------------

~ '	what is percentage well	and area by Cowardin cia				
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%	
	Open water (OW >6.6ft)					
	Emergent (EM)					
	Scrub-shrub (SS)					
	Forested (FO)					
21	Modified for WH1: How	many Cowardin wetland	classes are present?			
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а	
	RURAL	a. 3 or 4	b. 2	c. 1		
21	Modified for WQ3: What	t is the degree of wetland	l vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а	
23	What is the dominant we	tland vegetation cover?				
		a. woody (FO & SS)	b. emergent and ponding, or open water	c. emergent vegetation only or		
	а		only (EM w/ water or OW)	wet meadow (EM)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)		
	b	a. high	b. moderate	c. low		
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi	
	b	a. >40%	b. bet. 10% & 40%	c. <10%		
27	How is the wetland conne	ected to other wetlands?				
		a. connected within 3	b. not connected;	c. not connected,		
	а	miles by surface water	wetlands present within	no other wetlands		
			3 miles	within 3 miles		
28	Estimate area of unvegetated, open water within the wetland.					
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre		

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
h	sensitive species are	present at some time	present at any time
Б	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
b	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

	а	a. >75%	b. bet. 50% & 75%	c. <50%
32	What percentage of the s	tream contains instream	structures such as large w	voody debris,

floating/submerged vegetation, large rocks or boulders?

a. >25% b. bet. 10% & 25% c. <10% b

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no
21	What parcontage of the c	boroling is shaded at the	water's adap by forested	or corub chrub yogo

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation? n/a a. 60% or more b. bet. 20% & <60% c. <20%

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,	
	а	including streams and	flow	including springs or	
		ditches		seeps	
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?	
	а	a. yes (describe)	b. unable to determine or	c. no	
	a		not applicable		
38	38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culver				
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has	
	b	outlet	down the water (i.e.,	unrestricted flow	
			undersized culvert)		

(bold questions =field; office review important for 15, 16, 26)

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNI	T # MWC-1	OF	WAM UNIT #	MWC-2
Wildlife Habitat		Wildlif	e Habitat	
1 b		1	а	
2 c		2	а	
3 a		3	b	
4 c		4	С	
5 b		5	а	
6 a		6	а	
7 a		7	а	
8 c		8	b	
9b c		9b	b	
Prov	vides habitat for some species		Provid	les diverse wildlife habitat
ish Habitat		Fish H	abitat	
Streams and Riv	ers		ns and Rivers	
1		1	а	
2		2	b	
3		3	b	
4		4	a	
5		5	b	
6		6	b	
akes and Pond	S	Lakes	and Ponds	
1	-	1		
2		2		
3		3		
4		4		
5		5		
6		6		
	Not applicable		In	npacted or degraded
	oollutant removal)	1		utant removal)
-		2	a	
2 a 3 b		3	a a	
4 a	Ditches likely provide connectiv		a	
5 a		5	b a	
6 b		6	C D	
0 0	Impacted or degraded		C	Intact
				inteot
lydrologic Con	trol (flood control & water supply)	Hydro	logic Contro	I (flood control & water supply)
1 a		1	а	
2 a		2	а	
3 a		3	а	
4 a		4	b	
5 C		5	а	
6 a		6	b	
7 b		7	b	
	Intact			Intact

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-1

Function	Evaluation Descriptor	Rationale	
Wildlife Habitat	Provides habitat for some species	Relatively isolated, habitat not interspersed, low structural diversity, no open water, lacks woody vegetation. Adjacent land use is rural/residential and industrial. Located south of Swanson Creek	
Fish Habitat Not applicable		No stream / pond / lake present.	
Water Quality	Impacted or degraded	Surface inflow. Fed by ditch in-flow; ponding; within floodplain of Swanson Creek, a tributary to Whetsone and the Rogue. Average vegetative cover <60% due to vernal pool component.	
Hydrologic Control	Intact	Located within Swanson Creek 100-year floodplain.	
	Des	cription	
Wetland ID's: W36, W04 (A, B and Mosaic components). These wetlands are hydrologically connected by shallow surface flow and ponding water in hummocky microtopography across the complex. For each wetland, the mapped boundaries are approximate - there is potential for a delineation study to in fact connect these wetlands in to a single polygon. The mosaic nature of the site resulted in a large coverage of wetland polygon.			

Wetland identification: MWC-2

Function	Evaluation Descriptor	Rationale		
Wildlife Habitat	Provides diverse wildlife habitat	Forested, woody cover along Swanson Creek. Diverse herbaceous vegetation. Two wetland vegetation classes present, interspersed, large size. Provides meadow / pasture habitat for insects and small birds. Good structural diversity. Adjacent to developed areas.		
Fish Habitat	Impacted or degraded	Wetland complex connected to natural stream channel (Swanson Creek). No recorded water quality issues upstream. Shaded riparian corridor. Small portions of stream ditched/culverted.		
Water Quality	Intact	Surface inflow from Swanson Creek and surrounding upland. Interspersed ponding, well vegetated. Within floodplain of Swanson Creek, a tributary to Whetsone and the Rogue.		
Hydrologic Control	Intact	Within 100-year floodplain of Swanson Creek. Adjacent industrial / residential land use. Restricted outflow. >5 acres in size.		
Description				
Wetland ID's: W06, W34, W35, W24, W26 W85 through W88. Hydrologically connected by Swanson Creek and the adjoining riparian / Forested wetland feature. Site access would be helpful, as the mapped wetland polgons are conservatively based on the riparian vegetation shown in aerial imagery.				

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area. b cor

comments: Light industrial also present. Pasture land dominant use.

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b comments: Rogue River is outside of Study Area

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

a comments: Extensive ditching to east for flood irrigation.

Wetland Structure and Landscape

		a. <20%	D. Det. 20% & 50%	C. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use		b		
	b. Agriculture			4	
	c. Developed uses				
15	•	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use		b		
	b. Agriculture			1	
	a. Developed uses				
16		sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	5			1 0
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet of	f the wetland on the d	ownstream or
-	down-slope edge of the v				
	a. Developed uses		b		
	b. Agriculture			4	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla				
	a	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	-	within 1 mile	

э Г			year floodplain or within a	n encioseu basin?	
L	U	a. yes	0.10		
et	land Habitat				
	What is percentage wetla	und area by Cowardin cla	ss (10% or more)?		
•	What is percentage would	a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d bet 10% & <20
	Open water (OW >6.6ft)			0. 501. 2070 a 40070	
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
	Modified for WH1: How	many Cowardin wetland	classes are present?		
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
		a. 3 or 4	b. 2	c. 1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1			vegetation cover (a.H>60		а
	What is the dominant wet			/o/ billi 012 (00 /o/)	5
[a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	b		only (EM w/ water or	wet meadow (EM)	
			OW)		
4 ^L	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	iqure p. 37)	
Ī	•	a. high	b. moderate	c. low	
۱ 6		0	edge is bordered by uplan		er at least 25ft feet
ן ו		a. >40%	b. bet. 10% & 40%	c. <10%	
ן 7	How is the wetland conne			0. (1070	
ſ		a. connected within 3	b. not connected;	c. not connected,	
		miles by surface water		no other wetlands	
	u		3 miles	within 3 miles	
נ 8	Estimate area of unveget	ated open water within t			
Ĩ		a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
L		a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
sł	neries Habitat				
	Are fish present in a stre	am lake or pond connec	ted to the wetland?		
Ĭ		a. salmon, trout or		c. no species are	
		sensitive species are	present at some time	present at any time	
	C	present at some time	during the year	during the year	
		during the year	daning the year	aaning the year	
L	Streams connected to t		I		
	What is the physical char		nel?		
٦		a. natural channel, or	b.only portions of stream	c. extensively	
		modified portions are	modified	modified or	
	С	returning to a natural	modified	confined in a non-	
	5	channel		vegetated channel	
		Channer		or pipe	
۱ ^۱	What percentage of the s	tream is shaded by rinar	ian vegetation?		
Ī		a. >75%	b. bet. 50% & 75%	c. <50%	
			structures such as large w		
ວ່	floating/submerged veget				
		a. >25%	b. bet. 10% & 25%	c. <10%	
				0. \10/0	l
[
[Lakes or ponds (entire	•	shallow water?		
[Lakes or ponds (entire Does the lake or pond co	ntain areas of deep and		c no	
3 [Lakes or ponds (entire Does the lake or pond co b	ntain areas of deep and a	b. cannot be determined		ation?
3 [Lakes or ponds (entire Does the lake or pond co b What percentage of the s	ntain areas of deep and a			ation?

vogotation, large rooke of			
С	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,		c. groundwater,		
	b	including streams and	flow	including springs or		
		ditches		seeps		
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?		
	2	a. yes (describe)	b. unable to determine	c. no		
	а		or not applicable			
38	38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culver					
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has		
	b	outlet	down the water (i.e.,	unrestricted flow		
			undersized culvert)			
		• • • • • • • • • • • • • • • • • • • •	·	•		

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area.

b Water guality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	 Developed uses 				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet of	the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet of	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	a. Developed uses				
		sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
16	Modified for HC6: What	is the dominant existing I	and use within 500 feet of	the wetland on the d	ownstream or down-
	slope edge of the wetland	1?		_	
	a. Developed uses		а		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland located within the 100-y	year floodplain or within an enclosed basin?
---	--

19	Is all or part of the wetlar	nd located within the 100-	year floodplain or within a	n enclosed basin?		
	а	a. yes	b. no			
	land Habitat					
21	What is percentage wetla					
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%	
	Open water (OW >6.6ft)					
	Emergent (EM)					
	Scrub-shrub (SS)					
	Forested (FO)					
21	Modified for WH1: How	many Cowardin wetland	classes are present?			
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b	
	RURAL	a. 3 or 4	b. 2	c. 1		
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а	
23	3 What is the dominant wetland vegetation cover?					
		a. woody (FO & SS)	b. emergent and	c. emergent		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ponding, or open water	vegetation only or		
	а		only (EM w/ water or	wet meadow (EM)		
			OW)			
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	1	
	C	a. high	b. moderate	c. low		
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi	
	C	a. >40%	b. bet. 10% & 40%	c. <10%		
27	How is the wetland conne	ected to other wetlands?	•			
		a. connected within 3	b. not connected;	c. not connected,		
	а	miles by surface water	wetlands present within	no other wetlands		
			3 miles	within 3 miles		
28	Estimate area of unveget	tated, open water within t	he wetland.	•		
	b	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN	
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre		
			•	•		

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
h	sensitive species are	present at some time	present at any time
D	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
b	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

- 31 What percentage of the stream is shaded by riparian vegetation?
- a. >75% b. bet. 50% & 75% c. <50% а 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

b	a. >25%	b. bet. 10% & 25%	c. <10%
Lakes or ponds	(entire lake or por	nd and wetland complex)	

33 Does the lake or pond contain areas of deep and shallow water?

00						
	n/a	a. yes	b. cannot be determined	C. NO		
34	What percentage of the s	shoreline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ition?	
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%		

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%	

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood		portion of the growing seas	
	а	a. yes (describe)	b. unable to determine or	c. no
	ά		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structur	e, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	WAM UNIT#	MWC-3
	e Habitat	
1	b	
2	b	
3	c	
4	b	
5	a	
6	a	
7	a	
8	b	
9b	С	
	Provide	s habitat for some species
		·
Fish H	abitat (if app	licable)
Stream	ns and Rivers	
1		
2		
3		
4		
5		
6		
	and Ponds	
1	b	
2	С	
3	С	
4	a	
5	b	
6	C	n a stad av Dagvadad
	Iff	npacted or Degraded
Water	Quality (poll	utant removal)
1	b	
2	а	
3	а	
4	а	
5	b	
6	С	
		Intact
		(flood control & water supply)
1	b	
2	а	
3	a	
4	b	
5	b	
6	b	
7	b	
	In	npacted or Degraded

OFWAM UNIT # MWC-4					
Wildlife Habitat					
1	b				
2	а				
3	С				
4	b				
5	а				
6	а				
7	а				
8	b				
9b	b				
	Provide	es diverse wildlife habitat			
Fish H	abitat (if app	licable)			
Stream	ns and Rivers				
1	а				
2	b				
3	b				
4	а				
5	b				
6	b				
	and Ponds				
1					
2					
3					
4					
5 6					
0		posted or Degraded			
	III	pacted or Degraded			
Water	Quality (poll	utant removal)			
1	a				
2	а				
3	а				
4	а				
5	b				
6	С				
		Intact			
		(flood control & water supply)			
1	a				
2	a				
3	a				
	C				
5	a				
6 7	a b				
	b	Intact			
IIIIdU					

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-3

Function	Evaluation Descriptor	Rationale			
Wildlife Habitat	Provides habitat for some species	Habitat not interspersed, adjoining waters are approximately 0.6 acres in total. Some structural diversity. Lacks woody vegetation. Adjacent land use is residential. Borderline diverse / some.			
Fish Habitat	Impacted or Degraded	Ditches are channelized, one man-made irrigation pond present.			
Water Quality	Intact	Overland sheet inflow and surface flow via ditches. Extensive ponding during growing season is likely, based on historical aerial imagery. Tributary to Swanson Creek.			
Hydrologic Control Impacted or Degraded Agriculture is dominant surrounding land use.		Agriculture is dominant surrounding land use.			
Description					
Wedland ID's: W07, W38. Adjoining waters: AW35, WA29. Site visit to W07 confirmed that it is hydrologically connected to W38 along its western edge where a flooding ditch is present. Delineation level study would be required to confirm connection.					

Wetland identification: MWC-4

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse wildlife habitat	Forested, woody cover along Swanson Creek. Diverse herbaceous vegetation. Two wetland vegetation classes present, interspersed, large size. Provides meadow / pasture habitat for insects and small birds. Good structural diversity. Adjacent to developed areas.
Fish Habitat	Impacted or Degraded	Wetland complex connected to natural stream channel (Swanson Creek). No recorded water quality issues upstream. Shaded riparian corridor. Small portions of stream ditched/culverted.
Water Quality	Intact	Surface inflow from Swanson Creek and surrounding upland. Interspersed ponding, well vegetated. Within floodplain of Swanson Creek, a tributary to Whetsone and the Rogue.
Within 100-year floodplain of Swa Adjacent industrial / residential la		Within 100-year floodplain of Swanson Creek. Adjacent industrial / residential land use. Restricted outflow; Complex >5 acres in size.
	Des	cription
Wetland ID's: W39-(A- wetlands (confirmed b		n Creek and associated riparian / forested / scrub-shrub

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

comments: housing development upstream

a comm Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

	b. No streams of portions	of streams within the study area are listed as water quality infliced.
	b	comments:
8. C	consult the most recent Or	regon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the
wat	er quality condition of stre	am reaches in the watershed upstream from the assessment area. (If both "b" and "c"
app	ly, choose "c.")	
	- All	· · · Pata Las · · · · · · · · · · · · · · · · · · ·

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

a comments: Wetland Structure and Landscape

	. 2	a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	:	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	'
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	1
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the w	vetland?		_	
	a. Developed uses		а		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			_
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland located within the 100	0.90 year floodplain or within an enclosed basin?
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|--|

Wetland Habitat

21 What is percentage wetland area b	by Cowardin class (10% or more)?
--------------------------------------	----------------------------------

a. bet. 70% & 100% b. bet. 50% & <70% c. bet. 20% & <5 Open water (OW >6.6ft)	50% d. bet. 10% & <20%
Open water (OW >6.6ft)	
Emergent (EM)	
Scrub-shrub (SS)	
Forested (FO)	
21 Modified for WH1: How many Cowardin wetland classes are present?	
URBAN a. Two or more b. One w/ > 5 species c. One w/ < 5 sp	oecie a
RURAL a. 3 or 4 b. 2 c. 1	
21 Modified for WQ3: What is the degree of wetland vegetation cover (a.H>60%/ b.M/ c.L<60%	ы́)? а
23 What is the dominant wetland vegetation cover?	
a. woody (FO & SS) b. emergent and c. emergent	
b ponding, or open water vegetation only	or
only (EM w/ water or wet meadow (Ef	VI)
OW)	
24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)	
c a. high b. moderate c. low	
26 For urban areas, what percentage of the wetland edge is bordered by upland wildlife habitat	buffer at least 25ft feet w
c a. >40% b. bet. 10% & 40% c. <10%	
27 How is the wetland connected to other wetlands?	
a. connected within 3 b. not connected; c. not connected	, k
miles by surface water wetlands present within no other wetlands	ds
b 3 miles within 3 miles	
28 Estimate area of unvegetated, open water within the wetland.	
b a. >1 acres b. bet. 0.5 and 1 acre c. <0.5 acre	urban

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
	sensitive species are	present at some time	present at any time
С	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
с	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

- 31 What percentage of the stream is shaded by riparian vegetation?
- b. bet. 50% & 75% a. >75% c. <50% С 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

c a. >25% b. bet. 10% & 25% c. <

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	С	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	С	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

b	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	С	including streams and	flow	including springs or
		ditches		seeps
37 Is there evidence of flooding or ponding during a portion of the growing season?				son?
	2	a. yes (describe)	b. unable to determine	C. NO
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

- a. Streams or portions of streams within the study area are listed as water quality limited.
- b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exi	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or down-
	slope edge of the wetland	d?			
	a. Developed uses		а		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	-	within 1 mile	

19 Is all or part of the wetland located within the 100-ye	/ear floodplain or within an enclosed basin?
--	--

	b	a. yes	b. no
--	---	--------	-------

Wetland Habitat

21	What is percentage wetla				
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
21		-	•	a One w/ + E anagia	
		l a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
		. a. 3 or 4	b. 2	C. 1	
			d vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	С		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	iqure n. 37)	
27	b	a. high	b. moderate	c. low	
26	~	¥	edge is bordered by uplan		r at least 25ft foot wi
20				1	
~-	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conn				
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unvege	tated, open water within	the wetland.		
	a	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	
	4				
Eic	heries Habitat				
29	Are fish present in a stre				
		a. salmon, trout or	b. other fish species are	c. no species are	
	С	sensitive species are	present at some time	present at any time	
	3	present at some time	during the year	during the year	
		during the year			
	Streams connected to t	the wetland	•		
30	What is the physical cha	racter of the stream chan	inel?		
		a. natural channel, or	b.only portions of stream	c extensively	
		modified portions are	modified	modified or	
	h	-	modified		
	b	returning to a natural		confined in a non-	
		channel		vegetated channel	
				or pipe	
31	What percentage of the s				
	С	a. >75%	b. bet. 50% & 75%	c. <50%	
32	What percentage of the s	stream contains instream	structures such as large v	voody debris,	
	floating/submerged vege	etation, large rocks or bou	Ilders?	•	
		a. >25%	b. bet. 10% & 25%	c. <10%	
	Lakes or ponds (entire				
33	Does the lake or pond co	•	• •		
55	b b b b b b b b b b b b b b b b b b b			0 00	
•	2	a. yes	b. cannot be determined		11 O
34			e water's edge by forested		ation?
	C	a. 60% or more	b. bet. 20% & <60%	c. <20%	
35			s cover objects such as su	bmerged logs, floating	or submerged
	vegetation, large rocks o	r boulders?			
	С	a. >25%	b. bet. 10% & 25%	c. <10%	

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	С	including streams and	flow	including springs or
		ditches		seeps
37 Is there evidence of flooding or ponding during a portion of the growing season?				son?
	а	a. yes (describe)	b. unable to determine or	c. no
	a		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
<i>.</i>				

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	WAM UNIT#	MWC-5
Wildlif	e Habitat	
1	а	
2	b	
3	С	
4	b	
5	а	
6	b	
7	а	
8	b	
9b	С	
	Provides	habitat for some species
Fish H	abitat (if app	licable)
	ns and Rivers	
1	С	
2	С	
3	С	
4	a	
5	b	
6	C	
	and Ponds	
1		
2		
3		
4		
5		
6		n e ste d en De sue de d
	Im	pacted or Degraded
Water	Quality (poll	utant removal)
1	C	,
2	а	
3	а	
4	а	
5	b	
6	С	
	Im	pacted or Degraded
		(flood control & water supply)
1	b	
2	а	
3	а	
4	а	
5	b	
6	а	
7	а	
		Intact

OFWAM UNIT # MWC-6					
Wildlif	e Habitat				
1	а				
2	С				
3	b				
4	а				
5	а				
6	b				
7	а				
8	b				
9b	С				
	Provides	habitat for some species			
Fish H	abitat (if app	licable)			
	ns and Rivers				
1	С				
2	b				
3	С				
4	а				
5	b				
6	С				
Lakes	and Ponds				
1					
2					
3					
4					
5					
6					
	Im	pacted or Degraded			
Water Quality (pollutant removal)					
1	C C				
2	a				
3	а				
4	а				
5	b				
6	С				
	Impacted or Degraded				
Hydro		(flood control & water supply)			
1	b				
2	а				
3	а				
4	a				
5	С				
6	a				
7	b	Integt			
Intact					

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-5

Function	Evaluation Descriptor	Rationale		
Wildlife Habitat	Provides habitat for some species	Mostly emergernt with adjoinging open water, interspersed, large size. Provides meadow / pasture habitat for insects and small birds. Somewhat mosaic distribution of wetland/upland areas. Surface water connection via channelized stream. Relatively undisturbed pasture.		
Fish Habitat	Impacted or Degraded	Ditches are channelized, two ponds present.		
Water Quality	Impacted or Degraded	Primarily groundwater input. Lacks woody vegetation. Seasonal ponding; adjacent to light industrial land use and agriculture. No clear connection to Swanson Creek.		
Hydrologic Control	Intact	Complex >5 acres in size. Extensive flooding during growing season. Restricted outlet due to adjoing Vilas road and industrial development.		
Description				
Wetland ID's: W10-(A, E (observed during site vis Water ID's: AW16, AW3	sit and in LiDAR data).	w, pooling surface water in undulating microtopography		

Wetland identification: MWC-6

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Five wetland vegetation classes present, well interspersed, large size, diverse. Good structural at eastern end (W21, W53 on slope), open water interspersed, and streams / ditches present.
Fish Habitat	Impacted or Degraded	Ditches are channelized, several man made and natural ponds present.
Water Quality	Impacted or Degraded	Groundwater input. Streams extensively channelized. Surrounding land use is flood irrigated pasture. Downstream channel runs through / adjacent to Medford airport.
Hydrologic Control	Intact	Limited outlet. Not in floodplain, however ponding is likely. Ajacent to developed land uses. Drainage is headwater to Midway AND Swanson Creeks, feeding to pond with restricted outflow.
	Dese	cription
the west/northwest and and use of LiDAR data	a	57. This large complex has mostly unidirectional flow to ning and straightened stream channels. Aerial imagery

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

	comments:	pasture,	residential,	industria
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a comn Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b comments:

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

a comments: Rogue river is outside study area, downstream

Wetland Structure and Landscape

		a. <20%	D. Det. 20% & 50%	C. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			•	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing I	and use within 500 feet of	f the wetland on the d	ownstream or
	down-slope edge of the w	vetland?		_	
	a. Developed uses		b		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd ? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland located within the 100	0.90 year floodplain or within an enclosed basin?
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Wetland Habitat

21	what is percentage wella	ind area by Cowardin cia			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	b
23	What is the dominant we	tland vegetation cover?	-		
		a. woody (FO & SS)	b. emergent and	c. emergent	
	L		ponding, or open water	vegetation only or	
	b		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	а	a. high	b. moderate	c. low	
26	For urban areas, what pe	ccentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	b	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
<u> </u>	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
С	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

a. >75% b. bet. 50% & 75% c. <50% С 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

c a. >25%	b. bet. 10% & 25%	c. <10%
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Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	shoreline is shaded at the	e water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	c. no
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
		• • • • • • • • • • • • • • • • • • • •	·	

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area.

a Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

- a. Streams or portions of streams within the study area are listed as water quality limited.
- b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	а]	
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	а]	
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or down-
	slope edge of the wetland	1?			
	a. Developed uses		а]	
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	a	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface		c. not connected,	
	b	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	-	within 1 mile	

19 Is all or part of the wetland located within the 100	0-year floodplain or within an enclosed basin?
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Wetland Habitat

21	what is percentage welle	and area by cowardin cia			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	С
23	What is the dominant we	tland vegetation cover?	2	,	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	а	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi
	b	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	•		
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		, , , , , , , , , , , , , , , , , , , ,		
		a. salmon, trout or	b. other fish species are	c. no species are
с	0	sensitive species are	present at some time	present at any time
	C	present at some time	during the year	during the year
		during the year		
-				

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel	, or b.only portions of str	eam c. extensively
	modified portions	are modified	modified or
n/a	returning to a natu	Iral	confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/aa. >75%b. bet. 50% & 75%c. <50%</th>32What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	shoreline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37 Is there evidence of flooding or ponding during a portion of the growing season?				son?
	0	a. yes (describe)	b. unable to determine or	c. no
	а		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
		· · · · · · · ·		

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNIT# MWC-7						
	e Habitat					
1	b	rural				
2	b					
3	a					
4	С					
5	а					
6	b					
7	а					
8	b					
9b	b					
	Provides	habitat for some species				
Fish H	abitat (if app	licable)				
	is and Rivers					
1	C					
2	C					
3	C					
4	а					
5	b					
6	С					
Lakes	and Ponds					
1	n/a					
2	n/a					
3	n/a					
4	n/a					
5	n/a					
6	n/a					
	Im	pacted or Degraded				
Water	Quality (poll	utant removal)				
1	a					
2	a					
3	b					
4	a					
5	b					
6	C					
	-	pacted or Degraded				
Hydrologic Control (flood control & water supply)						
1	а					
2	а					
3	а					
4	С					
5	b					
6	b					
7	а					
		Intact				

OFWAM UNIT # MWC-8					
Wildlife Habitat					
1	b				
2	С				
3	а				
4	С				
5	b				
6	b				
7	а				
8	a				
9b	b Dravidaa	habitat far come anociae			
	Provides	habitat for some species			
Fish H	abitat (if app	licable)			
	ns and Rivers				
1					
2					
3					
4					
5					
6					
	and Ponds				
1					
2					
3					
4 5					
6					
0		Not applicable			
	Quality (poll	utant removal)			
1	а				
2	a				
3	С				
4	a				
5 6	a c				
- 0	-	acted or Degraded			
Hydro	Hydrologic Control (flood control & water supply)				
1	b				
2	а				
3	а				
4	а				
5	С				
6	а				
7	а				
		Intact			

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-7

Function	Evaluation Descriptor	Rationale	
Wildlife Habitat	Provides habitat for some species	Limited structural diversity, very small waters and vernal pools interspersed, one Cowardin class. Adjacent to Swanson Creek, with a portion crossing in to the 100-year floodplain. Lacks woody vegetation.	
Fish Habitat	Impacted or Degraded	Small ditch runs through center of complex.	
Water Quality	Impacted or Degraded	Surface in-flow, however wetland vegetation percentage is low because of mosaic structure. Vernal pool ponding during the growing season evident in aerial imagery.	
Hydrologic Control	Intact	Partly intersects with Swanson Creek 100-year floodplain. More than 5 acres in size.	
	Des	cription	
Wetland ID: W82. Landform was visually observed from southern boundary of parcel, however the characteristics of the vernal pools were not confirmed due to denied access. This polygon is from the Agate Desert Vernal Pool Planning TAC (2000), which has been extended slightly to the NW using desktop interpretation. LiDAR data shows true extent of Vernal Pool complex. Water ID's: AW10, WA11			

Wetland identification: MWC-8

Function	Evaluation Descriptor	Rationale		
Wildlife Habitat	Provides habitat for some species	Isolated with low structural diversity. Surrounded by developed land uses.		
Fish Habitat	Not applicable	Not connected to a stream, ditch or open water.		
Water Quality	Impacted or Degraded	Outside the floodplain of Swanson Creek. Low percentage of wetland vegetation cover due to mosai structure.		
Hydrologic Control	Intact	Polygon more than 5 acres in size, however actual wetland acreage may be smaller. No apparent outlet. Wetland surrounded by industrial and residential land use, and pasture.		
	Des	cription		
Wetland ID's: W25. Not accessed for verification. This wetland polygon is from the Agate Desert Vernal Pool Planning TAC (2000), and the Medford Hydrography CAD (2013). Native oaks are present within the wetland polygon and were included as upland habitat in the OFWAM assessment.				

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

а comments:

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.							
b. No streams or portions of streams within the study area are listed as water quality limited.							
b							
. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the							
water quality condition of stre	ater quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c"						
apply, choose "c.")	pply, choose "c.")						
a. All upstream reaches are listed as no problem (or no data available).							
•	 b. One or more upstream reaches are listed in moderate water quality condition. 						
c. One or more upstream	c. One or more upstream reaches are listed in severe water quality condition.						
а	comments:						
Wetland Structure and Lan							
15 What percentage of area				~			
	a. <20%	b. bet. 20% & 50%	c. >50%	_			
1. Open Space							
2. Agriculture							
3. Exclusive Forest Use	3. Exclusive Forest Use see next two questions						
 Developed uses 							
5. Other	5. Other						
15 Modified for WH8: What		ing land use within 500 feet	t of the wetland's edge?				
a. Exclusive Forest Use	or Open Space	b					
b. Agriculture							
c. Developed uses							
15 Modified for WQ5: What	t is the dominant exist	ing land use within 500 fee	t of the wetland's edge?	1			
c. Exclusive Forest Use	or Open Space	b					
b. Agriculture							
a. Developed uses							
16 What is the dominant exi	sting land use within 5	500 feet of the wetland on the	he downstream or dowr	i-slope edge of the			
wetland?				_			
	a. <20%	b. bet. 20% & 50%	c. >50%				
1. Open Space							
2. Agriculture							
3. Exclusive Forest Use		see next question					
 Developed uses 							
5. Other							
	6 Modified for HC6: What is the dominant existing land use within 500 feet of the wetland on the downstream or						
down-slope edge of the v	down-slope edge of the wetland?						

b. Agriculture c. Exclusive Forest Use or Open Space

a. Developed uses

17 What is the (entire) wetland acreage?

	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)	
		a. connected by surface	b. not connected to	c. not connected,
	а	water (culv., ditch,	water body within 1 mile	no water bodies
		int./per. stream)		within 1 mile

b

19 Is all or part of the wetland loca	ed within the 100-year flood	Iplain or within an enclosed basin?
---------------------------------------	------------------------------	-------------------------------------

b la. yes lb. no

Wetland Habitat

21	what is percentage wella	and area by Cowardin cla	(10% 01 more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	b
23	What is the dominant we	tland vegetation cover?		,	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	С	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	-		
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within t	he wetland.	•	
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
0	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
С	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

b. bet. 50% & 75% n/a a. >75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	e water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

	a. surface flow,	b. precipitation or sheet	c. groundwater,
а	including streams and	flow	including springs or
	ditches		seeps
Is there evidence of flood	ling or ponding during a p	ortion of the growing seas	son?
h	a. yes (describe)	b. unable to determine	c. no
0		or not applicable	
Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
	a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
С	outlet	down the water (i.e.,	unrestricted flow
		undersized culvert)	
	Is there evidence of flood b Is the water flow out of th	a including streams and ditches Is there evidence of flooding or ponding during a ponding during during a ponding during du	a including streams and ditches flow Is there evidence of flooding or ponding during a portion of the growing sease b b b a. yes (describe) b. unable to determine or not applicable Is the water flow out of the wetland restricted (beaver dam, concrete structure a. yes, restricted or no outlet b. minor restrictions slow down the water (i.e.,

Oregon Freshwater Wetland Assessment Functic Answer Sheet

OF	WAM UNIT#	MWC-9
	e Habitat	intro-3
1	a	
2	c c	
3	C	
4	С	
5	а	
6	b	
7	а	
8	b	
9b	С	
	Provides	habitat for some species
	abitat (if app	licable)
	ns and Rivers	
1 2		
2		
4		
5		
6		
Lakes	and Ponds	
1		
2		
3		
4		
5		
6		
		Not applicable
Watar	Quality (noll	utant ramaval)
water 1		utant removal)
2	a b	
3	b	
4	b	
5	b	
6	C	
	Imp	pacted or Degraded
Hydro	logic Contro	(flood control & water supply)
1	b	
2	b	
3	b	
4	С	
5	C	
6 7	b	
/	a	acted or Degraded
	int	bacted or Degraded

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-9

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	0.52 acres. Isolated, along boundary of field pasture. Disturbed. Potential PSS component <0.08 acres.
Fish Habitat	Not applicable	Minor ditch.
Water Quality	Impacted or Degraded	Isolated.
Hydrologic Control	Impacted or Degraded	Water likely moves through the wetland rapidly. Agriculture is dominant surrounding land use.
	Des	cription
Wetland ID's: W31 alo	ng small ditch line (desktop delir	neation), likely artificial.

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area. b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b
8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				1
	2. Agriculture				1
	3. Exclusive Forest Use	:	see next two questions		1
	4. Developed uses				
	5. Other				1
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exis	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%	1
	1. Open Space				1
	2. Agriculture				1
	3. Exclusive Forest Use		see next question		1
	4. Developed uses				1
	5. Other				1
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the w	vetland?			
	a. Developed uses		b		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the we	tland located within the	100-year floodplain or	within an enclosed basin?
-----------------------------	--------------------------	------------------------	---------------------------

|--|

Wetland Habitat

21	What is percentage wetla	a <u>nd area by Co</u> wardin cla			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		<u> </u>
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	С
		a. 3 or 4	b. 2	c. 1	I
21			d vegetation cover (a.H>60)%/b.M/c.L<60%)?	b
	What is the dominant we				
		a. woody (FO & SS)	b. emergent and	c. emergent]
			ponding, or open water	vegetation only or	
	С		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How intersporsed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	1
24	c	a. high	b. moderate	c. low	1
20	•				
20			edge is bordered by uplan		er at ieast 251t teet W 1
~-	С	a. >40%	b. bet. 10% & 40%	c. <10%	J
27	How is the wetland conn			<u> </u>	1
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	J
28	Estimate area of unvege	tated, open water within		-	
	b	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	
	heries Habitat Are fish present in a stre			L	1
		a. salmon, trout or	b. other fish species are	c. no species are	
	С	sensitive species are	present at some time	present at any time	
	-	present at some time	during the year	during the year	
		during the year			J
	Streams connected to t				
30	What is the physical char	racter of the stream chan	inel?	-	
		a. natural channel, or	b.only portions of stream	c. extensively	
		modified portions are	modified	modified or	
	С	returning to a natural		confined in a non-	
		channel		vegetated channel	
				or pipe]
31	What percentage of the s	stream is shaded by ripar	rian vegetation?		-
	С	a. >75%	b. bet. 50% & 75%	c. <50%	
32	What percentage of the s	stream contains instream	structures such as large v		-
	floating/submerged vege		-		
	C	a. >25%	b. bet. 10% & 25%	c. <10%]
	Lakes or ponds (entire				
33	Does the lake or pond co	•	• •		
	b	a. yes	b. cannot be determined	c. no	1
34			e water's edge by forested		ation?
• •		a. 60% or more	b. bet. 20% & <60%	c. <20%]
35			s cover objects such as su		a or submerged
	vegetation, large rocks o	•		sinorgou logo, noating	g or oubmorged
	vogotation, large rooks 0				

vegetation, large rocks or boulders?

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	b	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ing or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	C. NO
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	b	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	



Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area.

b Water guality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	:	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet of	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet of	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			•	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
16	Modified for HC6: What	is the dominant existing I	land use within 500 feet of	the wetland on the d	ownstream or down-
	slope edge of the wetland	1?		_	
	a. Developed uses		а		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	b	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	



19 Is all or part of the wetland located within the 100-y	year floodplain or within an enclosed basin?
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19	Is all or part of the wetlar	nd located within the 100-	year floodplain or within a	n enclosed basin?	
	а	a. yes	b. no		
	land Habitat	and another Operation also			
21	What is percentage wetla				
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	•		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)	, ,	
24	How interspersed are the	e Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi
	b	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	•		
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
0	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

- 31 What percentage of the stream is shaded by riparian vegetation?
- b. bet. 50% & 75% a. >75% c. <50% n/a 32 What percentage of the stream contains instream structures such as large woody debris,
 - floating/submerged vegetation, large rocks or boulders?

Lakaa ar nanda (antira	ake or pend and wetler	ad complex)	
n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex) 33 Does the lake or pond contain areas of deep and shallow water?

	С	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ition?
	С	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

С	a. >25%	b. bet. 10% & 25%	c. <10%	
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36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,		
	b	including streams and	flow	including springs or		
		ditches		seeps		
37	Is there evidence of flooding or ponding during a portion of the growing season?					
	0	a. yes (describe)	b. unable to determine or	c. no		
	а		not applicable			
38	Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert					
ſ		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has		
		outlet	down the water (i.e.,	unrestricted flow		
			undersized culvert)			



Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNIT# MWC-10 Wildlife Habitat						
2	С					
3	С					
4	b					
5	а					
6	b					
7	а					
8	b					
9b	С					
		Impacted or Degraded				
Fish Hab	itat (if ap	oplicable)				
Streams a	and River	·S				
1						
2						
3						
5 6						
	d Dondo					
Lakes and 1	a Ponas b					
2	-					
3	c					
4	c a					
5	b b					
6	c					
0		Impacted or Degraded				
Water Qu	uality (po	ollutant removal)				
1	b					
2	а					
3	b					
4	b					
5	b					
6	С					
		Impacted or Degraded				
		ol (flood control & water supply)				
1	b					
2	a					
3	b					
4	b					
5	C					
6	b					
7	b	Imported on Degrade d				
		Impacted or Degraded				

OFWAM UNIT # MWC-11							
Wildlife Habitat							
1	b						
2	С						
3	b						
4	С						
5	b						
6	а						
7	а						
8	b						
9b	b						
	In	npacted or Degraded					
Fish H	Fish Habitat (if applicable)						
Stream	ns and Rivers						
1							
2							
3							
4							
5							
6							
	and Ponds						
1	С						
2	С						
3	С						
4	a						
5	b						
6	С	n a sta d an Da nua da d					
	In	pacted or Degraded					
Water	Quality (poll	utant removal)					
1	b						
2	а						
3	а						
4	а						
5	b						
6	С						
	Im	npacted or Degraded					
Hydro	logic Control	(flood control & water supply)					
		(nood control & water supply)					
1 2	a						
3	a b						
4	b						
5	C D						
6	a						
7	b						
- '		pacted or Degraded					

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-10

Function	Evaluation Descriptor	Rationale				
Wildlife Habitat	Impacted or Degraded	Habitat not interspersed, adjoining waters are approximately 0.6 acres in total. Some structural diversity. Lacks woody vegetation. Adjacent land use is residential. Borderline diverse / some.				
Fish Habitat	Impacted or Degraded	Ditches are channelized, one man-made irrigation pond present.				
Water Quality	Impacted or Degraded	Overland sheet inflow and surface flow via ditches. Extensive ponding during growing season is likely, based on historical aerial imagery. Tributary to Swanson Creek.				
Hydrologic Control	Impacted or Degraded	Agriculture is dominant surrounding land use.				
Description						
Wedland ID: W11. Adjoining waters: AW17.						

Wetland identification: MWC-11

Function	Evaluation Descriptor	Rationale			
Wildlife Habitat	Impacted or Degraded	Forested, woody cover along Swanson Creek. Diverse herbaceous vegetation. Two wetland vegetation classes present, interspersed, large size. Provides meadow / pasture habitat for insects and small birds. Good structural diversity. Adjacent to developed areas.			
Fish Habitat	N/A	N/A			
Water Quality	Impacted or Degraded	Interspersed ponding, well vegetated. Partially within floodplain of Swanson Creek, a tributary to Whetsone and the Rogue.			
Hydrologic Control	Impacted or Degraded	Partially within 100-year floodplain of Swanson Creek. Adjacent industrial / residential land use. Restricted outflow; ponding during growing season.			
Description					
Wetland ID: W43. Separa	ated from W41.				

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b	
8. Consult the most recent	Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the
water quality condition of s	ream reaches in the watershed upstream from the assessment area. (If both "b" and "c"
apply, choose "c.")	

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

а	

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use				
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
16	Modified for HC6: What	is the dominant existing	and use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the w	vetland?		_	
	a. Developed uses		b		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte				
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland located within the 100	0.90 year floodplain or within an enclosed basin?
---	---

a a. yoo

Wetland Habitat

21	What is percentage wetla		ass (10% or more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
		l a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	С
		. a. 3 or 4	b. 2	c 1	
21			vegetation cover (a.H>60	1%/hM/cL<60%	а
	What is the dominant we	-		//0/ D.IVI/ 0.E<00/0/	u
20		a. woody (FO & SS)	b. emergent and	c. emergent	1
		a. woody (1 0 & 55)	ponding, or open water	_	
	С			vegetation only or	
			only (EM w/ water or	wet meadow (EM)	
~ 4			OW)		i i
24			upland inclusions)? (see F		I
	<u> </u>	a. high	b. moderate	c. low	
26			edge is bordered by uplan		er at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland connection				
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unvege	tated, open water within t	the wetland.	•	1
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	
	heries Habitat Are fish present in a stre				
		a. salmon, trout or	b. other fish species are	c. no species are	
	b	sensitive species are	present at some time	present at any time	
	Б	present at some time	during the year	during the year	
		during the year			
	Streams connected to t	the wetland			'
30	What is the physical chai	racter of the stream chan	inel?		
		a. natural channel, or	b.only portions of stream	c. extensively	
		modified portions are	modified	modified or	
	b	returning to a natural		confined in a non-	
		channel		vegetated channel	
				or pipe	
31	What percentage of the s	stream is shaded by ripar	ian vegetation?		1
• ·	a	a. >75%	b. bet. 50% & 75%	c. <50%	1
32			structures such as large v		ł
02	floating/submerged vege		-		
	hoading/submerged vege	a. >25%	b. bet. 10% & 25%	c. <10%	1
	~			0. <10 /0	i
22	Lakes or ponds (entire				
33	Does the lake or pond co		1		1
<u>.</u>	n/a	a. yes	b. cannot be determined		
34			e water's edge by forested		
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	1
35		•	s cover objects such as su	bmerged logs, floating	j or submerged
	vegetation, large rocks o	r boulders?			

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	b	including streams and	flow	including springs or
		ditches		seeps
37	son?			
	h	a. yes (describe) b. unable to determine		C. NO
	ם		or not applicable	
38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized				re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

(bold questions =field; office review important for 15, 16, 26)



Land uses within the watershed

- 6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)
 - a. Urban or urbanizing (mix of urban, agriculture and forest uses).
 - b. Agriculture (farming, ranching or grazing).
 - c. Forested or natural area.

b Water guality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

- a. Streams or portions of streams within the study area are listed as water quality limited.
- b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%				
	1. Open Space							
	2. Agriculture							
	3. Exclusive Forest Use		see next two questions					
	4. Developed uses							
	5. Other							
15	15 Modified for WH8: What is the dominant existing land use within 500 feet of the wetland's edge?							
	a. Exclusive Forest Use	or Open Space	b]				
	b. Agriculture			-				
	c. Developed uses							
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?				
	c. Exclusive Forest Use	or Open Space	b					
	b. Agriculture			-				
	a. Developed uses							
16	What is the dominant exis	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the			
	wetland?							
		a. <20%	b. bet. 20% & 50%	c. >50%				
	1. Open Space							
	2. Agriculture							
	3. Exclusive Forest Use		see next question					
	 Developed uses 							
	5. Other							
16	Modified for HC6: What	is the dominant existing I	and use within 500 feet of	the wetland on the d	ownstream or down-			
	slope edge of the wetland	d?		_				
	a. Developed uses		а]				
	b. Agriculture			-				
	c. Exclusive Forest Use	or Open Space						
17	What is the (entire) wetla	nd acreage?						
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres				
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		-			
		a. connected by surface	b. not connected to	c. not connected,				
	а	water (culv., ditch,	water body within 1 mile	no water bodies				
		int./per. stream)		within 1 mile				

19 Is all or part of the wetland located within the 100-y	year floodplain or within an enclosed basin?
---	--

19	Is all or part of the wetland located within the 100-year floodplain or within an enclosed basin?				
	а	a. yes	b. no		
-	land Habitat			_	
21	What is percentage wetla		, , , , , , , , , , , , , , , , , , ,		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	23 What is the dominant wetland vegetation cover?				
		a. woody (FO & SS)	b. emergent and	c. emergent	
	-		ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	С	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
					-

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
h	sensitive species are	present at some time	present at any time
D	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
b	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

- 31 What percentage of the stream is shaded by riparian vegetation?
- b. bet. 50% & 75% a. >75% c. <50% а 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

b	a. >25%	b. bet. 10% & 25%	c. <10%	
Lakes or pende	o (antira laka ar na	and and wotland complax)		

Lakes or ponds (entire lake or pond and wetland complex) 33 Does the lake or pond contain areas of deep and shallow water?

n/a a. ves b. cannot be determined [c. no			
]			
4 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?			
]			
at			

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a a. >25% b. bet. 10% & 25% c. <10%



Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	on?
	а	a. yes (describe)	b. unable to determine or	c. no
	ά		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structur	e, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

(bold questions =field; office review important for 15, 16, 26)



Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	WAM UNIT#	MWC-12	Γ
Wildlif	e Habitat		
1	С		
2	С		
3	С		
4	С		
5	а		
6	b		
7	а		
8	b		
9b	C .		
	Provide	es habitat for some species	
Fish H	abitat (if app	plicable)	
Stream	s and Rivers		
1	a		
2	b	1	ŀ
3	b	1	ŀ
4	a	1	ŀ
5	b		ŀ
6	b		
Lakes a	and Ponds		
1			ľ
2			ľ
3			
4			
5			
6			
	lr	npacted or Degraded	
Wator	Quality (pol	lutant removal)	
1	b		
2	b		ľ
3	а		ľ
4	b		ľ
5	b		
6	С		
	Ir	npacted or Degraded	
Hydrol	ogic Contro	I (flood control & water supply)	
Hyarol 1		(nood control & water supply)	
2	a b		
2	a	<u> </u>]	
4	C a		
5	c	<u> </u>	
6	b	<u> </u>]	
7	b	<u> </u>]	
/]		npacted or Degraded	

OF	OFWAM UNIT # MWC-13			
Wildlif	Wildlife Habitat			
1	b			
2	С			
3	С			
4	С			
5	а			
6	а			
7	а			
8	b			
9b	b			
	Provide	s habitat for some species		
Fish H	abitat (if app	licable)		
Stream	ns and Rivers			
1	а			
2	b			
3	b			
4	а			
5	b			
6	b			
	and Ponds			
1				
2	ļ			
3				
4				
5				
6		upacted or Degraded		
	111	pacted or Degraded		
Water	Quality (poll	utant removal)		
1	a			
2	а			
3	а			
4	а			
5	b			
6	С			
		Intact		
		(flood control & water supply)		
1	a			
2	a			
3	b			
4 5	C			
5 6	C a			
0 7	b a			
		pacted or Degraded		
	111	ipacieu or Degraueu		

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-12

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Provides meadow / pasture habitat for insects and small birds. Habitat not interspersed, and lacks woody vegetation.
Fish Habitat	Impacted or Degraded	Ditches are channelized.
Water Quality	Impacted or Degraded	Overland sheet inflow and surface flow via ditches. Som ponding during growing season is likely, based on historical aerial imagery. Swanson Creek connection.
Hydrologic Control	Impacted or Degraded	Agriculture is dominant surrounding land use.
	Desc	cription
Wedland ID's: W23		

Wetland identification: MWC-13

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Provides meadow / pasture habitat for insects and small birds. Adjacent to developed areas.
Fish Habitat	Impacted or Degraded	Wetland connected to natural stream channel (Swanson Creek). No recorded water quality issues upstream. Small portions of stream ditched/culverted.
Water Quality	Intact	Surface inflow from upslope and ditching, and possible Swanson Creek. Interspersed ponding, well vegetated. Within floodplain of Swanson Creek, a tributary to Whetsone and the Rogue.
Hydrologic Control	Impacted or Degraded	Within 100-year floodplain of Swanson Creek. Adjacent industrial / residential land use. Restricted outflow; ponding during growing season.
	Des	cription
Wetland ID: W08		

Land uses within the watershed

- 6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)
 - a. Urban or urbanizing (mix of urban, agriculture and forest uses).
 - b. Agriculture (farming, ranching or grazing).
 - c. Forested or natural area.

b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

- a. Streams or portions of streams within the study area are listed as water quality limited.
- b. No streams or portions of streams within the study area are listed as water quality limited.

b	
---	--

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.

15	what percentage of area	within 500 reet of the we	illand euge is dedicated it		
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	:	see next two questions		
	 Developed uses 				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet c	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	а		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	t is the dominant existing	land use within 500 feet of	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	С		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exi	sting land use within 500	feet of the wetland on the	e downstream or down-slope edge of	the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the downstream or	
	down-slope edge of the v	wetland?			
	a. Developed uses		а		
	b. Agriculture				
	c. Exclusive Forest Use				
17	What is the (entire) wetla	ind acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte				
		a. connected by surface		c. not connected, no	
	b	water (culv., ditch,	water body within 1 mile	water bodies within	
		int./per. stream)		1 mile	
19	Is all or part of the wetlar	nd located within the 100-	year floodplain or within a	n enclosed basin?	
	а	a. yes	b. no		



Wetland Habitat

21	What is percentage wetla	and area by Cowardin cla	ass (10% or more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?	I	
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	С
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	d vegetation cover (a.H>60	0%/ b.M/ c.L<60%)?	b
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
	<u> </u>		ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	e Cowardin classes (and	upland inclusions)? (see	Figure p. 37)	
	С	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplar	nd wildlife habitat buff	er at least 25ft feet v
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected, no	
		miles by surface water	wetlands present within	other wetlands	
	b		3 miles	within 3 miles	
	-				
28	Estimate area of unvege	tated open water within:	I the wetland		
20	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
	NONAL	u. 20 aurus	5. 55t. 0.0 and 0 able	0. NO.0 doit	ļ
Eiel	horios Habitat				

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		a. salmon, trout or	b. other fish species are	c. no species are	
	n/a	sensitive species are	present at some time	present at any time	
	11/d	present at some time	during the year	during the year	
		during the year			
-	Streams connected to t	he wetland			
30	What is the physical char	acter of the stream chan	nel?		
		a. natural channel, or	b.only portions of stream	c. extensively	
		modified portions are	modified	modified or	
	n/a	returning to a natural		confined in a non-	
		channel		vegetated channel	
				or pipe	
31	What percentage of the s	stream is shaded by ripar	ian vegetation?		
	n/a	a. >75%	b. bet. 50% & 75%	c. <50%	
32	What percentage of the s	stream contains instream	structures such as large v	woody debris,	
	floating/submerged vege	tation, large rocks or bou	lders?		
	n/a	a. >25%	b. bet. 10% & 25%	c. <10%	
	Lakes or ponds (entire	-			
33	Does the lake or pond co	ntain areas of deep and	-		
	n/a	a. yes	b. cannot be determined		
34	What percentage of the s	shoreline is shaded at the	water's edge by forested	or scrub-shrub veget	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	
35		•	s cover objects such as su	Ibmerged logs, floatin	g or submerged
	vegetation, large rocks of	r boulders?			
	n/a	a. >25%	b. bet. 10% & 25%	c. <10%	



Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

			b. precipitation or sheet flow	c. groundwater, including springs or			
		ditches		seeps			
37	37 Is there evidence of flooding or ponding during a portion of the growing season?						
	0	a. yes (describe)	b. unable to determine	c. no			
	C		or not applicable				

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

	a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	outlet	down the water (i.e.,	unrestricted flow
C		undersized culvert)	



Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area.

b Water guality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	and use within 500 feet of	the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	a. Developed uses				
16	What is the dominant exis	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
16	Modified for HC6: What	is the dominant existing I	and use within 500 feet of	the wetland on the d	ownstream or down-
	slope edge of the wetland	1?		_	
	a. Developed uses		b		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		-
		a. connected by surface	b. not connected to	c. not connected,	
	b	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland	d located within the 100	-year floodplain or within	an enclosed basin?
----------------------------------	--------------------------	----------------------------	--------------------

19	Is all or part of the wetlar	nd located within the 100-	year floodplain or within a	n enclosed basin?			
	а	a. yes	b. no				
	t land Habitat What is percentage wetla	and area by Cowardin da	ss(10% or more)?				
21	what is percentage wella		· · · · · · · · · · · · · · · · · · ·	a hat 200/ 8 .500/	d hat 100/ 8 .000/		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%		
	Open water (OW >6.6ft)						
	Emergent (EM)						
	Scrub-shrub (SS)						
	Forested (FO)						
21	Modified for WH1: How		•				
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b		
	RURAL	a. 3 or 4	b. 2	c. 1			
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а		
23	3 What is the dominant wetland vegetation cover?						
		a. woody (FO & SS)	b. emergent and	c. emergent			
			ponding, or open water	vegetation only or			
	C		only (EM w/ water or	wet meadow (EM)			
			OW)				
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)			
	С	a. high	b. moderate	c. low			
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi		
	С	a. >40%	b. bet. 10% & 40%	c. <10%			
27	How is the wetland conne	ected to other wetlands?					
		a. connected within 3	b. not connected;	c. not connected,			
	а	miles by surface water	wetlands present within	no other wetlands			
			3 miles	within 3 miles			
28	Estimate area of unveget	ated, open water within t	he wetland.				
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN		
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre			

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
	sensitive species are	present at some time	present at any time
	present at some time	during the year	during the year
n/a	during the year	. .	ũ,

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
	returning to a natural		confined in a non-
	channel		vegetated channel
n/a			or pipe

- 31 What percentage of the stream is shaded by riparian vegetation?
- n/a a. >75% b. bet. 50% & 75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,
 - floating/submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%		
Lakes or pends (entire lake or pend and wetland complex)					

Lakes or ponds (entire lake or pond and wetland complex) 33 Does the lake or pond contain areas of deep and shallow water?

00	Dood the latte of porta of	intain arous of acop and	onaliow water.		
	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	tion?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%
in la	- 050/	h hat 100/ 9 250/	- 400/



Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?
		a. yes (describe)	 b. unable to determine or 	c. no
	а		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structur	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
<i></i>				

(bold questions =field; office review important for 15, 16, 26)



Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	WAM UNIT#	MWC-14
Wildlif	e Habitat	
1	С	
2	С	
3	С	
4	С	
5	b	
6	b	
7	а	
8	а	
9b	С	
	Provide	s habitat for some species
Fish H	abitat (if app	licable)
1	ns and Rivers	
1	n/a	
2	n/a	
3	n/a	
4	n/a	
5	n/a	
6	n/a	
1	and Ponds	
1	n/a	
2	n/a	
3	n/a	
4	n/a	
5	n/a	
6	n/a	n/a
		II/a
Water	Quality (poll	utant removal)
1	b	
2	C C	
3	b	
4	b	
5	С	
6	С	
	Im	pacted or Degraded
Hydro	logic Control	(flood control & water supply)
1	а	
2	С	
3	b	
4	С	
5	С	
6	а	
7	b	pacted or Degraded

	WAM UNIT #	MWC 15
		MVVC-15
	e Habitat	
1	b	
2	С	
3	С	
4	c	
5	b	
6	а	
7	a	
8	b	
9b	b Drovido	a habitat far asma anasias
	Provide	s habitat for some species
Eich U	abitat (if ann	licable)
Stream	abitat (if app is and Rivers	ווימאוכן
Silean 1	n/a	
2	n/a	
3	n/a	
4	n/a	
5	n/a	
6	n/a	
	and Ponds	
1	n/a	
2	n/a	
3	n/a	
4	n/a	
5	n/a	
6	n/a	
		n/a
	Quality (poll	utant removal)
1	а	
2	а	
3	а	
4	a	
5	b	
6	С	late et
		Intact
Ludra	logic Control	(flood control 8 water cumply)
Hyaro 1		(flood control & water supply)
1	a	
2	a	
3 4	a	
4 5	C	
5 6	c b	
7	b	
/		pacted or Degraded
I	111	ipacieu ul Deglaueu

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-14

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Habitat not interspersed, adjoining waters are approximately 0.6 acres in total. Some structural diversity. Lacks woody vegetation. Adjacent land use is residential. Borderline diverse / some.
Fish Habitat	n/a	Ditches are channelized, one man-made irrigation pond present.
Water Quality	Impacted or Degraded	Overland sheet inflow and surface flow via ditches. Extensive ponding during growing season is likely, based on historical aerial imagery. Tributary to Swanson Creek.
Hydrologic Control	Impacted or Degraded	Agriculture is dominant surrounding land use.
	Des	cription
Wetland ID: W42		

Wetland identification: MWC-15

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Diverse herbaceous vegetation, large size. Provides meadow / pasture habitat for insects and small birds. Structural diversity.
Fish Habitat	n/a	Not connected
Water Quality	Intact	Irrigation flooding still seems to contribute to this wetland, with downslope connection to Swanson Creek. Ponding onserved near P08. Well vegetated. Within 100-year floodplain of Swanson Creek, a tributary to Whetsone and the Rogue.
Hydrologic Control	Impacted or Degraded	Within 100-year floodplain of Swanson Creek. Adjacent industrial / residential land use. Ponding during growing season; Complex >5 acres in size.
	Descri	ption
Wetland ID: W09 and W4	40	

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

	b	
8. Consult the	e most recent O	regon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the
water quality	condition of stre	am reaches in the watershed upstream from the assessment area. (If both "b" and "c"
apply, choose	e "c.")	

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use				
	 Developed uses 				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space		L	1	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v	vetland?			
	a. Developed uses		b		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		_
		a. connected by surface	b. not connected to	c. not connected,	
	b	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland loca	ed within the 100-year flood	Iplain or within an enclosed basin?
---------------------------------------	------------------------------	-------------------------------------

a a. yes b. no

Wetland Habitat

21	what is percentage wetla	and area by Cowardin cla	, , , , , , , , , , , , , , , , , , ,	1		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet.	10% & <20%
	Open water (OW >6.6ft)					
	Emergent (EM)					
	Scrub-shrub (SS)					
	Forested (FO)					
21		many Cowardin wetland	classes are present?			
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie		С
		a. 3 or 4	b. 2	c 1		Ū.
21			vegetation cover (a.H>60	$\frac{100}{100}$ / h M/ c L < 60%)?		b
	What is the dominant we	-		//0/ D.IVI/ C.L<00/0):		0
23			b omorgont and	a amargant		
		a. woody (FO & SS)	b. emergent and	c. emergent		
	С		ponding, or open water	vegetation only or		
			only (EM w/ water or	wet meadow (EM)		
		<u> </u>	OW)			
24	How interspersed are the		upland inclusions)? (see F			
	С	a. high	b. moderate	c. low		
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at lea	ast 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%		
27	How is the wetland conn	ected to other wetlands?	-			
		a. connected within 3	b. not connected;	c. not connected,		
	а	miles by surface water	wetlands present within	no other wetlands		
	3		3 miles	within 3 miles		
28	Estimate area of unvege	tated, open water within t		within o fillies		
20		a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre		
	C	a. >1 acres	D. Det. 0.5 and 1 acre	C. <0.5 acre		
Fis	heries Habitat					
29	Are fish present in a stre	eam, lake or pond conned	cted to the wetland?			
	·	a. salmon, trout or	b. other fish species are	c. no species are		
		sensitive species are	present at some time	present at any time		
		present at some time	during the year	during the year		
	n/a	during the year	during the year	during the year		
	Streams connected to t					
20			nol2			
30	what is the physical cha	racter of the stream chan		a automolius hu		
		a. natural channel, or	b.only portions of stream			
		modified portions are	modified	modified or		
		returning to a natural		confined in a non-		
		channel		vegetated channel		
	n/a			or pipe		
31	What percentage of the s	stream is shaded by ripar	ian vegetation?			
	n/a	a. >75%	b. bet. 50% & 75%	c. <50%		
32	What percentage of the s	stream contains instream	structures such as large v	voody debris,		
		etation, large rocks or bou		•		
	n/a	a. >25%	b. bet. 10% & 25%	c. <10%		
		lake or pond and wetla				
33		ontain areas of deep and				
55	n/a		b. cannot be determined	c no		
24		a. yes			ation 2	
ა4			water's edge by forested		1001	
~-	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%		
35		•	s cover objects such as su	bmerged logs, floating	g or sub	omerged
	vegetation, large rocks o	r boulders?		1		
	n/a	a. >25%	b. bet. 10% & 25%	c. <10%		

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	b	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ing or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	C. NO
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	b	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

(bold questions =field; office review important for 15, 16, 26)



Oregon Freshwater Wetland Assessment Function (Answer Sheet

OF	OFWAM UNIT# MWC-16			
Wildlif	Wildlife Habitat			
1	C			
2	С			
3	С			
4	С			
5	b			
6	а			
7	а			
8	b			
9b	С			
	Provide	s habitat for some species		
Fish H	abitat (if app	licable)		
	s and Rivers			
1	n/a			
2	n/a			
3	n/a			
4	n/a			
5	n/a			
6	n/a			
Lakes	and Ponds			
1	n/a			
2	n/a			
3	n/a			
4	n/a			
5	n/a			
6	n/a	,		
		n/a		
Water	Quality (poll	utant removal)		
1	b	,		
2	a			
3	b			
4	а			
5	b			
6	С			
	Im	pacted or Degraded		
	logic Control	(flood control & water supply)		
1	а			
2	a			
3	b			
4	b			
5	C			
6	b			
7	b	na stad en Dagna da l		
	In	pacted or Degraded		

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: MWC-16

Function	Evaluation Descriptor	Rationale	
Wildlife Habitat	Provides habitat for some species	Habitat not interspersed, adjoining waters are approximately 0.6 acres in total. Some structural diversity. Lacks woody vegetation. Adjacent land use is residential. Borderline diverse / some.	
Fish Habitat	n/a	Ditches are channelized, one man-made irrigation pond present.	
Water Quality	Impacted or Degraded	Overland sheet inflow and surface flow via ditches. Extensive ponding during growing season is likely, based on historical aerial imagery. Mowed pasture with limited vegetation diversity.	
Hydrologic Control	Impacted or Degraded	Agriculture is dominant surrounding land use. Wetland is a mowed / managed field.	
	Dese	cription	
Wedland ID's: W27, W28. Connected under driveway via culvert.			

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area.

a Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

- a. Streams or portions of streams within the study area are listed as water quality limited.
- b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture		-		
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture		-		
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or down-
	slope edge of the wetland	d?			
	a. Developed uses		а		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	b	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	-	within 1 mile	

9 Is all or part of the wetland located within the 10	00-year floodplain or within an enclosed basin?
---	---

b a. yes b. no

Wetland Habitat

21 What is percentage wetland area by Cowardin class (10% or more)?

21	what is percentage wella	and area by Cowardin Cla			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)	а			
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	b
23	What is the dominant we	tland vegetation cover?		-	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and u	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland e	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		<i>i</i>		
	n/a	a. salmon, trout or	b. other fish species are	c. no species are
		sensitive species are	present at some time	present at any time
		present at some time	during the year	during the year
		during the year		
-				

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/aa. >75%b. bet. 50% & 75%c. <50%</th>32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	shoreline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?
	b	a. yes (describe)	b. unable to determine or	c. no
	b		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	b	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
<i>.</i>		· · · · · · · ·		

(bold questions =field; office review important for 15, 16, 26)

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNIT # BCS-1					
	e Habitat	BC3-1			
vviiaiif 1	е нарітат b				
2	C C				
3	b				
4	C C				
5	b				
6	b				
7	а				
8	b				
9b	С				
	Provides	habitat for some species			
	abitat (if app	licable)			
	ns and Rivers				
1					
2					
3					
4					
5					
6 Lakes	and Ponds				
2					
3					
4					
5					
6					
		Not applicable			
	Quality (poll	utant removal)			
1	a				
2	b				
3	b				
4	b				
5 6	b				
0	C	pacted or Degraded			
	Im	pacted or Degraded			
Hydro	logic Control	l (flood control & water supply)			
1	b				
2	b				
3	b				
4	b				
5	С				
6	a				
7	а				
	Im	pacted or Degraded			

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-1

Function **Evaluation Descriptor** Rationale Flood irrigated pasture with limited diversity, one Provides habitat for some Cowardin class. Adjacent land use is flood irrigated Wildlife Habitat pasture and other agriculture, with a golf course to the species west. Highly altered irrigation canal. Fish Habitat Not applicable No true surface water connection to Phoenix Canal. Flood irrigation is practiced on site by controlled use of Water Quality Impacted or Degraded ditches. Any ponding that occurs is a result of controlled flood irrigation. Canal is bordered by a dike on the west Hydrologic Control Impacted or Degraded side. A small underground pipe connects the ditch along the east side of the wetland to the canal. Description Wetland ID's: W01, W02-(A-B). Phoenix Canal runs along eastern edge of W02-B, separated by a dike. Phoenix Canal is a tributary to Larson Creek, and Larson Creek to Bear Creek (>1/4 mile away). Artificial waters to the west are part of golf course landscaping features - no connection to these was observed.

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

comments: a portion is agriculture, and further upstream is open upland forest.

c comm Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

	comments: Adjacent Larson creek is listed as water quality limited for temperature and
а	dissolved oxygen

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.

		а	comments:	
 	1.04			1

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	-
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	n-slope edge of the
	wetland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet of	f the wetland on the d	lownstream or
	down-slope edge of the v	vetland?			
	a. Developed uses		b		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla				
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres]

18 How is wetland connected to a stream, lake, or pond? (see Figure, p. 35)	
a. connected by surface b. not connected to c. not connected	d,
a water (culv., ditch, water body within 1 mile no water bodies	
int./per. stream) within 1 mile	
19 Is all or part of the wetland located within the 100-year floodplain or within an enclosed basin	?
b a. yes b. no	
Wetland Habitat	
21 What is percentage wetland area by Cowardin class (10% or more)?	
a. bet. 70% & 100% b. bet. 50% & <70% c. bet. 20% & <	50% d. bet. 10% & <20%
Open water (OW >6.6ft)	
Emergent (EM)	
Scrub-shrub (SS)	
Forested (FO)	
21 Modified for WH1: How many Cowardin wetland classes are present?	
URBAN a. Two or more b. One w/ > 5 species c. One w/ < 5 sp	becie b
RURAL a. 3 or 4 b. 2 c. 1	
21 Modified for WQ3: What is the degree of wetland vegetation cover (a.H>60%/ b.M/ c.L<60%	6)? a
23 What is the dominant wetland vegetation cover?	·
a. woody (FO & SS) b. emergent and c. emergent	
ponding, or open water, vegetation only	or
b only (EM w/ water or wet meadow (El	
OW)	,
24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)	
b a. high b. moderate c. low	
26 For urban areas, what percentage of the wetland edge is bordered by upland wildlife habitat	buffer at least 25ft feet w
c a. >40% b. bet. 10% & 40% c. <10%	
27 How is the wetland connected to other wetlands?	
a. connected within 3 b. not connected; c. not connected	, t
b miles by surface water wetlands present within no other wetland	
3 miles within 3 miles	
28 Estimate area of unvegetated, open water within the wetland.	
b a. >1 acres b. bet. 0.5 and 1 acre c. <0.5 acre	URBAN
RURAL a. >3 acres b. bet. 0.5 and 3 acre c. <0.5 acre	
	1
Fisheries Habitat	
29 Are fish present in a stream, lake or pond connected to the wetland?	
a. salmon, trout or b. other fish species are c. no species ar	
	e
b sensitive species are present at some time present at any t	

Streams connected to the wetland

30 What is the physical character of the stream channel?

	n/a	a. natural channel, or modified portions are returning to a natural channel		c. extensively modified or confined in a non- vegetated channel or pipe		
31 What percentage of the stream is sha		tream is shaded by ripari	an vegetation?			
	n/a	a. >75%	b. bet. 50% & 75%	c. <50%		
32	What percentage of the stream contains instream		structures such as large w	voody debris,		
floating/submerged vegetation, large rocks or boulders?						
	n/a	a. >25%	b. bet. 10% & 25%	c. <10%		

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	What percentage of the	e shoreline is shaded at the	e water's edge by forested	or scrub-shrub vegeta	ation?
	b	a. 60% or more	b. bet. 20% & <60%	c. <20%	
35	What percentage of the	wetland complex contain	s cover objects such as su	bmerged logs floating	a or subme

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

c a. >25% b. bet. 10% & 25% c. <10%

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

	а			c. groundwater, including springs or seeps
37	Is there evidence of flood		oortion of the growing seas	
	b	,		C. NO
20	-		or not applicable	
38	is the water now out of th		ver dam, concrete structur	
			b. minor restrictions slow	
	а	outlet	(<i>'</i>	unrestricted flow
			undersized culvert)	

(bold questions =field; office review important for 15, 16, 26)

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

 a
 comment: Downstream Bear creek is listed as water quality limited - Temperature, sediment, and bacteria.

 8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.

Wetland Structure and Landscape

а

		a. <20%	b. bet. 20% & 50%	c. >50%]
	1. Open Space	4. 12070	5. bot. 2070 a 0070	0. 20070	
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet of	the wetland's edge?	
15	a. Exclusive Forest Use		b	the wettand 3 edge:	
	b. Agriculture	or open opace	0		
	c. Developed uses				
15	Modified for WQ5: What	t is the dominant existing	land use within 500 feet of	f the wetland's edge?	
15		_	b	i i i e welland s euge?	
	c. Exclusive Forest Use b. Agriculture	of Open Space	D		
	-				
	a. Developed uses What is the dominant exis	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
16	wetland?	sung land use within 500	reet of the wetland of the		-slope edge of the
	wettand	a. <20%	b. bet. 20% & 50%	c. >50%]
	1. Open Space	a. <2070	5. bet. 20% & 30%	0. 20070	-
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses		see next question		
	5. Other				
40		is the dominant evicting	land was within 500 foot of		
10	Modified for HC6: What	_	land use within 500 leet of	the wettand on the d	ownstream or down
	slope edge of the wetland	11	h	l	
	a. Developed uses		b		
	b. Agriculture				
<u> </u>	c. Exclusive Forest Use				
17	What is the (entire) wetla			0.5	1
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	J

18 How is wetland connecte	ed to a stream, lake, or po	ond ? (see Figure, p. 35)		
	a. connected by surface	b. not connected to	c. not connected,	
а	water (culv., ditch,	water body within 1 mile	no water bodies	
	int./per. stream)		within 1 mile	
9 Is all or part of the wetlar	nd located within the 100-	year floodplain or within a	n enclosed basin?	
b	a. yes	b. no	J	
/etland Habitat 21 What is percentage wetla	and area by Cowardin da	cc (10% or more)?		
I what is percentage wette	a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d bot 100/ 8 2000
Open water (O) $(A > 6.64)$	a. Del. 70% & 100%	D. Del. 50% & <70%	C. Del. 20% & <30%	u. Det. 10% $\alpha < 20\%$
Open water (OW >6.6ft)				
Emergent (EM)				
Scrub-shrub (SS)				
Forested (FO)				
21 Modified for WH1: How				
URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
RURAL	. a. 3 or 4	b. 2	c. 1	
21 Modified for WQ3: Wha	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	b
23 What is the dominant we		-	,	
	a. woody (FO & SS)	b. emergent and	c. emergent	
		ponding, or open water	vegetation only or	
С		only (EM w/ water or	wet meadow (EM)	
		OW)		
24 How interspersed are the	e Cowardin classes (and		igure p. 37)	1
b	a. high	b. moderate	c. low	
26 For urban areas, what pe				er at least 25ft feet w
b	a. >40%	b. bet. 10% & 40%	c. <10%	
27 How is the wetland conn			0. 1070	1
	a. connected within 3	b. not connected;	c. not connected,	1
а	miles by surface water	wetlands present within	no other wetlands	
a	Thes by surface water	3 miles	within 3 miles	
	totod open weter within t		within 3 miles	_
28 Estimate area of unvege			0.5.000	
С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
RURAL	. a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
isheries Habitat				
29 Are fish present in a stre			•	
	a. salmon, trout or	b. other fish species are	c. no species are	
	sensitive species are	present at some time	present at any time	
а	present at some time	during the year	during the year	
	during the year			
Streams connected to	<u> </u>	•	1	1

30 What is the physical character of the stream channel?

00					
	b			modified or confined in a non- vegetated channel	
				or pipe	
31 What percentage of the stream is shaded by riparian vegetation?		an vegetation?			
	С	a. >75%	b. bet. 50% & 75%	c. <50%	
32	32 What percentage of the stream contains instream structures such as large woody debris,			oody debris,	
	floating/submerged vegetation, large rocks or boulders?				
	С	a. >25%	b. bet. 10% & 25%	c. <10%	

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a a. >25% b. bet. 10% & 25% c. <10%	
---------------------------------------	--

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,		c. groundwater,	
	а	including streams and	flow	including springs or	
		ditches		seeps	
37	Is there evidence of flood	ing or ponding during a p	ortion of the growing seas	on?	
	0	a. yes (describe)	b. unable to determine or	c. no	
	C		not applicable		
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structur	e, undersized culvert)	?
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has	
	С	outlet	down the water (i.e.,	unrestricted flow	
			undersized culvert)		

(bold questions =field; office review important for 15, 16, 26)

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	WAM UNIT#	BCS-2
Wildlif	e Habitat	
1	b	
2	b	
3	b	
4	b	
5	а	
6	b	
7	а	
8	b	
9b	С	
	Provides	habitat for some species
Fish H	abitat (if app	licable)
	s and Rivers	•
1		
2		
3		
4		
5		
6		
-	and Ponds	
1	b	
2	С	
3	b	
4	a	
5	b	
6	b	ested or Degraded
	Imp	pacted or Degraded
Water 1		utant removal)
2	a b	
2	a	
4	b a	
5	b	
6	C	
		pacted or Degraded
Hydro	logic Contro	(flood control & water supply)
1	b	
2	b	
3	b	
4	а	
5	b	
6	b	
7	С	
	Imp	pacted or Degraded

OF\	OFWAM UNIT # BCS-3			
Wildlif	e Habitat			
1	b			
2	С			
3	b			
4	С			
5	а			
6	а			
7	а			
8	b			
9b	b			
	Provides	habitat for some species		
Fish H	abitat (if app	licable)		
	ns and Rivers			
1	С			
2	b			
3	С			
4	а			
5	b			
6	а			
Lakes	and Ponds			
1				
2				
3				
4				
5				
6	l ince a	a stad or Degradad		
	Imp	bacted or Degraded		
Water	Quality (poll	utant removal)		
1	а			
2	С			
3	b			
4	a			
5	b			
6	C	a stad an Daona da l		
	Imp	bacted or Degraded		
Hydro	logic Control	I (flood control & water supply)		
1	b			
2	С			
3	b			
4	С			
5	С			
6	b			
7	b			
	Imp	bacted or Degraded		

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-2

Function	Evaluation Descriptor	Rationale	
Wildlife Habitat	Provides habitat for some species	Riparian vegetation along Larson Creek includes oak, ash, willow, and blackberry. One wetland type.	
Fish Habitat	Impacted or Degraded	Larson Creek reservoir is small. It adjoins the wetlands, but does not have a clear connection to Larson Creek.	
Water Quality	Impacted or Degraded	Could be intact if ponding is occuring (unable to determine). Evidence that main source of hydrology is from up-slope canal and associated ditches used for flood irrigation.	
Hydrologic Control	Impacted or Degraded	Larson Creek reservoir connects to wetlands, but does not have a clear connection to Larson Creek. No culvert observed under road to west.	
	Des	cription	
Wetland ID: W13 Water ID's: AW21 - La	urson Creek Reservoir. East Late	ral Canal is upslope.	
Passes LSW criteria because it is within 1/4 mile of water quality limited Larson creek.			

Wetland identification: BCS-3

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Adjoining upland vegetation somewhat sparse. Single Cowardin class.
Fish Habitat	Impacted or Degraded	Wetland connected to tributary via intermittent or potentially ephemeral drainage / ditch that lacks woody vegetation.
Water Quality	Impacted or Degraded	Connected to tributary by likely intermittent stream. Inflow potentially from East Lateral Canal and AW22 pond.
Hydrologic Control	Impacted or Degraded	Residence is in close proximity, however majority of surrounding land use is flood irrigated pasture.
	Des	cription
Wetland ID's: W68. Unnamed tributary to Bear Creek is located approximately 300 feet to the south, outside the study area and is connected by an ephemeral drainage.		

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. b cor

comments: Pasture

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comments: Bear Creek, downstream

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

er ene er mere apeaeam	reached are noted in covere mater quality contailern
а	comments:
tland Structure and Land	decano

Wetland Structure and Landscape

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space			1	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	and use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the w	vetland?			
	a. Developed uses		а		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connected	d to a stream, lake, or po	nd ? (see Figure, p. 35)		
		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland loca	ed within the 100-year flood	Iplain or within an enclosed basin?
---------------------------------------	------------------------------	-------------------------------------

21	what is percentage wella	and area by Cowardin cla			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?	-	
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
	L.		ponding, or open water	vegetation only or	
	b		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	b	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
2	sensitive species are	present at some time	present at any time
a	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/a a. >75% b. bet. 50% & 75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	С	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

		C	a. >25%	b. bet. 10% & 25%	c. <10%
--	--	---	---------	-------------------	---------

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	c. no
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
		• • • • • • • • • • • • • • • • • • • •	·	•

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

a Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comments: Bear Creek is listed as water quality limited

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

С	comments: Bear creek is listed as severe with data

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet of	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	а		
	b. Agriculture			1	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	-	а		
	b. Agriculture			1	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet of	the wetland on the d	ownstream or down-
	slope edge of the wetland	d?			
	a. Developed uses		С		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		1
		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	-	within 1 mile	

19 Is all or part of the wetland located within the 100	0-year floodplain or within an enclosed basin?
---	--

a a. yes b. no

wetland area by Cowardin class (10% or more)?

21	what is percentage wetta	and area by Cowardin cla	iss (10% or more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	l vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?	C X	,	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	а		only (EM w/ water or	wet meadow (EM)	
			OŴ)	· · · ·	
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	а	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by a veg	etative buffer at least	25 feet wide?
	а	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	-		
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unvege	tated, open water within t	he wetland.		
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
		P	•	•	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are	
а	sensitive species are	present at some time	present at any time	
	present at some time	during the year	during the year	
	during the year			

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
b	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

a. >75% b. bet. 50% & 75% c. <50% а 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

b	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetatio				ation?
	а	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

b	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?
	b	a. yes (describe)	b. unable to determine or	c. no
	U		not applicable	
38	38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized cul-			
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	b	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
		· · · · · · · ·		

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	OFWAM UNIT# BCS-4			
Wildlif	Wildlife Habitat			
1	а			
2	b			
3	b			
4	b			
5	а			
6	а			
7	а			
8	b			
9b	С			
	Provide	s diverse wildlife habitat		
Fish H	abitat (if app	licable)		
Stream	is and Rivers			
1				
2				
3				
4				
5				
6				
Lakes	and Ponds			
1	b			
2	С			
3	С			
4	а			
5	b			
6	a			
	Imp	acted or Degraded		
Water	Quality (poll	utant removal)		
1	а			
2	а			
3	а			
4	а			
5	b			
6	С			
		Intact		
معاميرا	ogio Control	(flood control 8 water cumpled)		
		(flood control & water supply)		
1 2	b			
2	<u>a</u>			
3 4	<u>a</u>			
4 5	a b			
5 6	a			
7	a b			
/	U	Intact		
		intaot		

OF)	WAM UNIT #	BCS-5	
Wildlife Habitat			
1	a		
2	a		
3	a		
4	C		
5	а		
6	а		
7	С		
8	а		
9b	а		
	Provide	s diverse wildlife habitat	
	abitat (if app	licable)	
	ns and Rivers		
1 2	a b		
∠ 3	b b		
3 4	D C		
4 5	a		
6	a		
-	and Ponds		
1			
2			
3			
4			
5			
6			
		Intact	
	Quality (poll	utant removal)	
1	a		
2	b		
3	a		
-	a		
5 6	a c		
0	-	bacted or Degraded	
Hydro	logic Contro	l (flood control & water supply)	
1	a		
2	b		
3	b		
4	b		
5	а		
6	С		
7	а		
	Imp	bacted or Degraded	

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-4

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse wildlife habitat	Two Cowardin classes present, dominated by emergent vegetation with limited diversity and moderate interspersion. Adjoins open water, and I-5 corridor.
Fish Habitat	Impacted or Degraded	Coho present in Bear Creek, downstream. Connected to Bear Creek via culvert under I-5 corridor.
Water Quality	Intact	Large area, well vegetated, tributary to Bear Creek.
Hydrologic Control	Intact	Aerial imagery suggests flooding / ponding present. Receives flow from ditches and tributaries leading to Bear Creek.
	Desc	cription
Wetland ID's: W70, W Water ID's: WA08, WA		ed via ditching, surface flow, and water WA08.

Wetland identification: BCS-5

Function	Evaluation Descriptor	Rationale
Wildlife Habitat Provides diverse wildlife vegetation. Two Cowardir		Forested, woody, scrub-shrub cover. Diverse vegetation. Two Cowardin classes classes present, interspersed, large size, good structural diversity. Bear Creek runs through middle. Adjacent to developed areas.
Fish Habitat	Intact	Provides shade to Bear Creek, a natural channel with good structural diversity. Coho recorded in Bear Creek (federally threatened).
Water QualityImpacted or DegradedBear Creek is water quality limited due to to bacteria and sediment.		Bear Creek is water quality limited due to temperature, bacteria and sediment.
Hydrologic Control	Impacted or Degraded	Dominant downstream cover within 500 feet is natural area within the Bear Creek Greenway.
	Dese	cription
	79. Hydrologically connected via	floodplain of Bear Creek.
Water ID's: Bear Creel	< c	

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

b comments:

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comments: Bear creek, downstream

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

а	comments:	
 I am al Otani ati ma ai		

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	 Developed uses 				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	а		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	а		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space			·	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v	vetland?		_	
	a. Developed uses		С		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or	part of the wetland	l located within the	100-year floodplai	in or within an e	enclosed basin?
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b a. yes b. no

21	what is percentage wetta	and area by Cowardin cla	iss (10% or more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	l vegetation cover (a.H>60)%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?	-	,	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	С		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	с	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by a veg	etative buffer at least	25 feet wide?
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unvege	tated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
		B	-	-	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
h	sensitive species are	present at some time	present at any time
D	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

		c. extensively modified or confined in a non- vegetated channel
	Granner	or pipe

31 What percentage of the stream is shaded by riparian vegetation?

a. >75% b. bet. 50% & 75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	С	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

		С	a. >25%	b. bet. 10% & 25%	c. <10%
--	--	---	---------	-------------------	---------

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,		c. groundwater,
	b	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?
	h	a. yes (describe)	b. unable to determine	C. NO
	ם		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
		• • • • • • • • • • • • • • • • • • • •	·	

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. a

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

al Galdanio di portiono d		hady aloa alo notoa ao nato	n quanty minito ai	
b. No streams or portion	ns of streams within th	ne study area are listed as w	ater quality limited.	
a	comment: Bear cree	ek	· · ·	
8. Consult the most recent O	regon Statewide Ass	essment of Nonpoint Source	es of Water Pollution to	determine the water
quality condition of stream re	-	•		
choose "c.")		•	,	
a. All upstream reaches	are listed as no prob	lem (or no data available).		
b. One or more upstrear	m reaches are listed i	n moderate water quality co	ndition.	
c. One or more upstrear	n reaches are listed i	n severe water quality condi	ition.	
а				
Wetland Structure and Lan	dscape			
15 What percentage of area	a within 500 feet of the	e wetland edge is dedicated	to these land uses?	
	a. <20%	b. bet. 20% & 50%	c. >50%	
1. Open Space		L		
2. Agriculture				
3. Exclusive Forest Use		see next two questions		
4. Developed uses		-		
5. Other				
15 Modified for WH8: What	t is the dominant exis	ting land use within 500 feet	t of the wetland's edge?	J
a. Exclusive Forest Use	or Open Space	b		
b. Agriculture				
c. Developed uses				
15 Modified for WQ5: Wha	t is the dominant exis	ting land use within 500 fee	t of the wetland's edge?	
c. Exclusive Forest Use		b	٦ ĭ	
b. Agriculture				
a. Developed uses				
16 What is the dominant exi	isting land use within	500 feet of the wetland on th	he downstream or dowr	-slope edge of the
wetland?	Ū			
	a. <20%	b. bet. 20% & 50%	c. >50%	
1. Open Space				-
2. Agriculture				
3. Exclusive Forest Use		see next question		
4. Developed uses				
5. Other				
16 Modified for HC6: What	t is the dominant exis	ting land use within 500 feet	t of the wetland on the d	ownstream or down-
slope edge of the wetlan				
a. Developed uses	-	b		

b. Agriculture

c. Exclusive Forest Use or Open Space

17 What is the (entire) wetland acreage?

	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)	
		a. connected by surface	b. not connected to	c. not connected,
	а	water (culv., ditch,	water body within 1 mile	no water bodies
		int./per. stream)		within 1 mile

19 Is all or part of the wetland located within the 100	0-year floodplain or within an enclosed basin?
---	--

	b	a. yes	b. no
--	---	--------	-------

21 Wh	at is percentage	wetland area	by Cowardin cl	ass (10% or more)?
-------	------------------	--------------	----------------	--------------------

~ '	what is percentage welle	and area by cowardin cia			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
	What is the dominant we	-	C (,	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OŴ)	· · · · ·	
24	How interspersed are the	e Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	С	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by a veg	etative buffer at least	25 feet wide?
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	-		
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
		-	3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within t	he wetland.		
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
0	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/aa. >75%b. bet. 50% & 75%c. <50%</th>32What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a a. >25% b. bet. 10% & 25% c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	С	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?
	а	a. yes (describe)	b. unable to determine or	c. no
	a		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
<i>.</i>				

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNIT# BCS-6					
	Wildlife Habitat				
1	b				
2	С				
3	С				
4	С				
5	а				
6	b				
7	а				
8	а				
9b	С				
	Provides	habitat for some species			
Fish H	abitat (if app	licable)			
	is and Rivers	,			
1					
2					
3					
4					
5					
6					
-	and Ponds				
1	b				
2	С				
3	С				
4	а				
5	a k				
6	b	eated or Degraded			
	IIII	pacted or Degraded			
		utant removal)			
1	b				
2	b				
3 4	a b				
4 5	a				
5 6	a C				
0	-	bacted or Degraded			
	iiiip				
Hydro	Hydrologic Control (flood control & water supply)				
1	b				
2	b				
3	b				
4	а				
5	С				
6	С				
7	b				
	Imp	acted or Degraded			

OF	OFWAM UNIT # BCS-7					
	Wildlife Habitat					
1	a					
2	C					
3	С					
4	С					
5	а					
6	b					
7	а					
8	b					
9b	С					
	Provides	habitat for some species				
	abitat (if app	licable)				
	ns and Rivers					
1						
2						
3						
4						
5						
6 Lakaa	and Ponds					
	anu Ponus					
1						
3						
4						
5						
6						
		Not applicable				
Water	Quality (poll	utant removal)				
1	С					
2	а					
3	а					
4	а					
5	b					
6	С					
	Imp	acted or Degraded				
		(flood control & water supply)				
1	b					
2	a					
3	a					
4 5	a					
с 6	c b					
0 7	-					
— <i>′</i>	а	Intact				
		maor				

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-6

Function	Evaluation Descriptor	Rationale	
Wildlife Habitat	Provides habitat for some species	Isolated wetland within golf course.	
Fish Habitat	Impacted or Degraded	Culvert from wetland flows to underground piping, and into artificial pond	
Water Quality	Impacted or Degraded	Wetland on slope, surrounded by golf course, drained by underground culvert.	
Hydrologic Control	Impacted or Degraded	Wetland on slope, surrounded by golf course, drained by underground culvert. Not in floodplain, not upstream of developed areas. Extensive ponding not likely.	
	Des	cription	
Vetland ID's: W17. Other small probable wetlands on golf course too small for functional assessment. Vater ID's: Artificial ponds on golf course include AW27, AW36, AW37, AW38, AW39			

Wetland identification: BCS-7

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Isolated, habitat not interspersed, no open water. Two Cowardin classes. Adjacent to Bear Creek which is water quality limited.
Fish Habitat	Not applicable	Ditch is minor.
Water Quality	Impacted or Degraded	Ground water input. Lacks extensive woody vegetation.
Hydrologic Control	Intact	Ground water fed wetland, ponding evident in ditch that runs through site. Large area. Woody vegetation present.
	Des	cription
Wetland ID's: W19-(A-	B). Connected via ditching, surfa	ace flow, and culvert.
Field visit found no sur assessment unit (see		I which has, therefore, been excluded from this

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

- 6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)
 - a. Urban or urbanizing (mix of urban, agriculture and forest uses).
 - b. Agriculture (farming, ranching or grazing).
 - c. Forested or natural area.

a comments:

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comments: Bear creek is water quality limited for temperature, bacteria, sediment.

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

a comments: Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	:	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	t is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exi	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space		L		
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v	vetland?		_	
	a. Developed uses		b		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	ind acreage?			_
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		-
		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int /per_stream)		within 1 mile	

19 Is all or	part of the wetland	l located within the	100-year floodplai	in or within an e	enclosed basin?
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21	what is percentage wella	and area by Cowardin Cla			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?	-	
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	С		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	С	a. high	b. moderate	c. low	
26	For urban areas, what pe	centage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	-		
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

n/a	a. salmon, trout or	b. other fish species are	c. no species are
	sensitive species are	present at some time	present at any time
	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/a a. >75% b. bet. 50% & 75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a a. >25% b. bet. 10% & 25% c. <10%	
---------------------------------------	--

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	С	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?
	6	a. yes (describe)	b. unable to determine	c. no
	С		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
		• • • • • • • • • • • • • • • • • • • •	·	•

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area. а

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

-					
	а	Bear Creek is 303(d) for multiple criteria			
8. C	consult the most recent Or	regon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water			
quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply,					
cho	ose "c.")				
	a All upstream reaches	are listed as no problem (or no data available)			

stream reaches are listed as no problem (or no data available).

- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.

а	

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	:	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture		-	-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or down-
	slope edge of the wetland	- - ?			
	a. Developed uses		b		
	b. Agriculture		-	-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or part of the wetland located within the 100	0-year floodplain or within an enclosed basin?
---	--

	b	a. yes	b. no
--	---	--------	-------

21 What is percentage wetland	nd area by Cowardin class (10% or more)?
-------------------------------	--

~ '	what is percentage welle	and area by cowardin cia			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)	а			
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	С
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	b
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
	2		ponding, or open water	vegetation only or	
	С		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	e Cowardin classes (and	upland inclusions)? (see F	ïgure p. 37)	'
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			_
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		_
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		, , , , , , , , , , , , , , , , , , , ,		
		a. salmon, trout or	b. other fish species are	c. no species are
	С	sensitive species are	present at some time	present at any time
		present at some time	during the year	during the year
		during the year		
-				

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
С	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

ca. >75%b. bet. 50% & 75%c. <50%</th>32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	ortion of the growing seas	son?
	b	a. yes (describe)	b. unable to determine or	c. no
	b		not applicable	
38	38 Is the water flow out of the wetland restricted (beaver dam, concrete struct			re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
<i>.</i>				

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNIT# BCS-8				
Wildlife Habitat				
1	b			
2	С			
3	С			
4	С			
5	а			
6	b			
7	а			
8	b			
9b	С			
	Provides	habitat for some species		
Eich U	abitat (if ann	liashla)		
	abitat (if app	incable)		
Sirean 1				
2				
3				
4				
5				
6				
	and Ponds			
1				
2				
3				
4				
5				
6				
		Not applicable		
Wator	Quality (poll	utant removal)		
vvaler 1				
2	c			
3	a			
4	b			
5	b			
6	С			
	Imp	acted or Degraded		
		(flood control & water supply)		
1	b			
2	C			
3	b			
4	a			
5	C			
6 7	b			
/	a Imr	acted or Degraded		
	ΠΠ	acted of Degraded		

OFWAM UNIT # BCS-9					
	e Habitat	500-5			
1	C				
2	C				
3	b				
4	С				
5	а				
6	b				
7	а				
8	b				
9b	С				
	Provides	habitat for some species			
Field II	ahitat /if ann	liashla)			
	abitat (if app and Rivers	licablej			
Stream 1					
2	C C				
3	C C				
3 4	a				
5	a b				
6	C C				
-	and Ponds				
1					
2					
3					
4					
5					
6					
	Imp	acted or Degraded			
M /- (0				
water 1	Quality (poli a	utant removal)			
2	a b				
3	b				
4	b				
5	b				
6	C C				
	-	acted or Degraded			
Hydrologic Control (flood control & water supply)					
1	b				
2	b				
3	b				
4	С				
5	С				
6	b				
7	а				
	Imp	acted or Degraded			

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-8

Function	Evaluation Descriptor	Rationale
		Limited structural diversity. Isolated. Agriculture and developed land uses surround the wetland.
Fish Habitat Not applicable		Very small pond present.
Water Quality	Impacted or Degraded	Ground water fed. No connection to ditch along southern boundary of parcel.
Hydrologic Control	Impacted or Degraded	Ground water fed. No connection to flood plain. Slight slope - little to no ponding.
	Des	cription
Wetland ID's: W20 Water ID's: WA26		

Wetland identification: BCS-9

Function	Evaluation Descriptor	Rationale	
Wildlife Habitat Provides habitat for some species		Flood irrigated pasture with limited diversity, one Cowardin class. Adjacent land use is flood irrigated pasture and other agriculture.	
Fish Habitat	Impacted or Degraded	Highly altered irrigation canal that is not diked on eastern side and therefore connected to W03.	
Water Quality	Impacted or Degraded	Connected to Phoenix Canal, used for flood irrigation. FAC vegetation is dominated by meadow foxtail as a result of flood irrigation activities on clay soils.	
Hydrologic Control	Impacted or Degraded	No ponding, as wetland is located on a slope. Receives hydrology from ditches used for flooding along the east side of the parcel.	
	Dese	cription	
Wetland ID's: W03. Highly altered setting limits functional value. Phoenix Canal runs along western edge, and is a tributary to Larson Creek, and Larson Creek to Bear Creek.			

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

b comments: Pasture, and golf cour

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comments: Bear Creek, downstream

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

а	comments:		
land Structure and Landscape			

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	5	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			•	
	c. Developed uses				
15	•	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	•	b]	
	b. Agriculture			•	
	a. Developed uses				
16	What is the dominant exis	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	5			1 0
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space			I	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16		is the dominant existing	land use within 500 feet of	f the wetland on the d	ownstream or
	down-slope edge of the w				
	a. Developed uses		а]	
	b. Agriculture			1	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla				
		a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte			•	
		a. connected by surface		c. not connected,	
	а	-	water body within 1 mile	no water bodies	
		int./per. stream)	•	within 1 mile	

19 ls	s all or	part of the	wetland I	ocated with	in the 1	100-year	floodplain o	or within a	an enclosed	basin?
-------	----------	-------------	-----------	-------------	----------	----------	--------------	-------------	-------------	--------

b la yes lb no

21 What is	percentage wetland	area by	Cowardin class (10% or more)?

21	what is percentage wella	and area by Cowardin cla	ss (10% of more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
		a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?		-	
		a. woody (FO & SS)	b. emergent and	c. emergent	
	L.		ponding, or open water	vegetation only or	
	b		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within t	he wetland.		
	b	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
2	sensitive species are	present at some time	present at any time
d	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

b. bet. 50% & 75% n/a a. >75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a a. >25% b. bet. 10% & 25% c. <10%	
---------------------------------------	--

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	С	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

С	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	C. NO
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	



Oregon Freshwater Wetland Assessment Function Answer Sheet

OF	WAM UNIT#	BCS-10
	e Habitat	20010
1	a	
2	b	
3	b	
4	b	
5	а	
6	а	
7	а	
8	b	
9b	С	
	Provides	s diverse wildlife habitat
	abitat (if app	licable)
	ns and Rivers	
1		
2		
3		
4		
5		
6	and Danda	
	and Ponds	
1 2	b	
2	С	
3	C	
4 5	a b	
6	a	
0		acted or Degraded
	IIIP	
Water	Quality (poll	utant removal)
1	а	
2	а	
3	а	
4	а	
5	b	
6	С	
		Intact
 ,		
		(flood control & water supply)
1 2	b	
2	a	
3 4	a	
4 5	a b	
5 6	b a	
7	a b	
	U	Intact
		maor

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-10

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse wildlife habitat	Two Cowardin classes present, dominated by emergent vegetation with limited diversity and moderate interspersion. Adjoins open water, and I-5 corridor.
Fish Habitat	Impacted or Degraded	Coho present in Bear Creek, downstream. Connected to Bear Creek via culvert under I-5 corridor.
Water Quality	Intact	Large area, well vegetated, tributary to Bear Creek.
Hydrologic Control	Intact	Aerial imagery suggests flooding / ponding present. Receives flow from ditches and tributaries leading to Bear Creek.
	Desc	cription
Wetland ID: W74. Water ID: WA25		

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

comments: a portion is agriculture, and further upstream is open upland forest.

c comm Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

comments: Adjacent Larson creek is listed as water quality limited for temperature and dissolved oxygen

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.

а	comments:

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
1.	Open Space				
2.	Agriculture				
3.	Exclusive Forest Use		see next two questions		
4.	Developed uses				
5.	Other				
15 Mo	odified for WH8: What	is the dominant existing	land use within 500 feet of	of the wetland's edge?	
a	Exclusive Forest Use	or Open Space	b]	
b	Agriculture			-	
C.	Developed uses				
15 Mo	odified for WQ5: What	is the dominant existing	land use within 500 feet of	of the wetland's edge?)
C.	Exclusive Forest Use	or Open Space	b]	
b	Agriculture			-	
a	Developed uses				
16 W	hat is the dominant exis	sting land use within 500	feet of the wetland on the	e downstream or down	n-slope edge of the
we	etland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%]
1.	Open Space				
2.	Agriculture				
3.	Exclusive Forest Use		see next question		
4.	Developed uses				
5.	Other				
16 M	odified for HC6: What	is the dominant existing	land use within 500 feet c	of the wetland on the d	ownstream or
dc	wn-slope edge of the w	vetland?			
a	Developed uses		b		
b	Agriculture			-	
C.	Exclusive Forest Use	or Open Space			
17_W	hat is the (entire) wetla	nd acreage?			_
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres]

18	How is wetland connecte	d to a stream, lake, or po	nd ? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	
19	Is all or part of the wetlan	d located within the 100-	year floodplain or within a	n enclosed basin?	
	b	a. yes	b. no		
	tland Habitat				
21	What is percentage wetla				
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
	L		ponding, or open water	vegetation only or	
	b		only (EM w/ water or	wet meadow (EM)	
			OW)	· · · ·	
24	How interspersed are the	Cowardin classes (and u	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ccentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	er at least 25ft feet w
	C	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	ated, open water within the	he wetland.		
	b	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	
				•	
Fis	heries Habitat				
29	Are fish present in a stre	am, lake or pond connec	ted to the wetland?		
	·	a. salmon, trout or		c. no species are	
		sensitive species are	present at some time	present at any time	
	b	present at some time	during the year	during the year	

during the year Streams connected to the wetland

30 What is the physical character of the stream channel?

	What is the physical shall	dotor of the otroath offahr		
		a. natural channel, or	b.only portions of stream	c. extensively
		modified portions are	modified	modified or
	n/a	returning to a natural		confined in a non-
		channel		vegetated channel
				or pipe
31	What percentage of the s	stream is shaded by ripari	an vegetation?	
	n/a	a. >75%	b. bet. 50% & 75%	c. <50%
32	What percentage of the s	tream contains instream	structures such as large w	oody debris,
	floating/submerged veget	tation, large rocks or boul	lders?	
	n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	shoreline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	b	a. 60% or more	b. bet. 20% & <60%	c. <20%	
35	What percentage of the y	vetland complex contains	cover objects such as sul	omerged logs floating	n or subme

so vvnat percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders? c. <10%

a. >25% b. bet. 10% & 25% С

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ing or ponding during a p	ortion of the growing seas	son?
	h	a. yes (describe)	b. unable to determine	c. no
	b		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	



Oregon Freshwater Wetland Assessment Functic Answer Sheet

OFWAM UNIT# BCS-11 Wildlife Habitat 1 b 2 b 3 b 4 b 5 a 6 b 7 a 8 b 9b c 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1 1 Eakes and Ponds 1 1 Eakes and Ponds 1 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b	05		BCS-11
1 b 2 b 3 b 4 b 5 a 6 b 7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1			D00-11
2 b 3 b 3 b 4 b 5 a 6 b 7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1			
3 b 4 b 5 a 6 b 7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1	-		
4 b 5 a 6 b 7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1			
5 a 6 b 7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1 2 3 3 4 4 5 5 6 1 2 2 3 3 4 4 5 5 6 1 2 c 3 5 4 4 5 5 6 5 7 8 8 1 9 0 1 5 6 5 7 6 8 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td></td> <td></td>			
6 b 7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1 1 2 2 3 4 5 6 Lakes and Ponds 1 1 b 2 c 3 b 4 a 5 b 6 b 1 b 2 c 3 b 4 a 5 b 6 b Impacted or Degraded	•		
7 a 8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1 2 3 4 5 6 Lakes and Ponds 1 2 3 4 5 6 Lakes and Ponds 1 2 3 4 5 6 Lakes and Ponds 1 b 2 3 4 5 6 b Impacted or Degraded Water Quality (pollutant removal) 1 1 2 b 3 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
8 b 9b c Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1			
Provides habitat for some species Fish Habitat (if applicable) Streams and Rivers 1 2 1 3 1 4 1 5 1 6 1 1 1 2 1 3 1 4 1 5 1 6 1 1 b 2 1 5 1 6 1 1 b 2 c 3 b 4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c 1 a 2 b 3 a 4 b 5			
Fish Habitat (if applicable) Streams and Rivers 1 2 1 2 1 3 1 4 1 5 1 6 1 1 b 2 1 6 1 1 b 2 1 3 b 4 1 5 1 6 1 2 1 3 b 4 a 5 b 6 b Impacted or Degraded	9b	С	
Fish Habitat (if applicable) Streams and Rivers 1 2 1 2 1 3 1 4 1 5 1 6 1 1 b 2 1 6 1 1 b 2 1 3 b 4 1 5 1 6 1 2 1 3 b 4 a 5 b 6 b Impacted or Degraded		Provides	habitat for some species
Streams and Rivers 1			·
1			licable)
2	Stream	ns and Rivers	
3 4 5 6 6 1 1 b 2 c 3 b 4 a 5 b 4 a 5 b 6 b 4 a 5 b 6 b Impacted or Degraded	•		
4 5 5 6 6 1 2 c 3 b 4 a 5 b 6 b 4 a 5 b 6 b Impacted or Degraded			
5 6 6 1 1 b 2 c 3 b 4 a 5 b 6 b 1 a 5 b 6 b Impacted or Degraded			
6 Lakes and Ponds 1 b 2 c 3 b 4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded			
Lakes and Ponds 1 b 2 c 3 b 4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 2 b 3 a 4 b 5 b 6 c 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded			
1 b 2 c 3 b 4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c 1 a 4 b 5 b 6 c Impacted or Degraded	-		
2 c 3 b 4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c 1 a 4 b 5 b 6 c Impacted or Degraded		-	
3 b 4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded	-		
4 a 5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded		-	
5 b 6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
6 b Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
Impacted or Degraded Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded		-	
Water Quality (pollutant removal) 1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded	0	-	pacted or Degraded
1 a 2 b 3 a 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
2 b 3 a 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b	Water	Quality (poll	utant removal)
3 a 4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b		а	
4 b 5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b		b	
5 b 6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
6 c Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
Impacted or Degraded Hydrologic Control (flood control & water supply) 1 b			
Hydrologic Control (flood control & water supply)	6	-	postod or Dogradad
1 b		Imp	bacted of Degraded
1 b	Hydro	logic Control	(flood control & water supply)
			(nood control & water supply)
	2	b	
3 b			
4 a			
5 b			
6 b			
7 C	_		
Impacted or Degraded		Imp	pacted or Degraded

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: BCS-11

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Riparian vegetation along Larson Creek includes oak, ash, willow, and blackberry. One wetland type.
Fish Habitat	Impacted or Degraded	Larson Creek reservoir is small. It adjoins the wetlands, but does not have a clear connection to Larson Creek.
Water Quality	Impacted or Degraded	Could be intact if ponding is occuring (unable to determine). Evidence that main source of hydrology is from up-slope canal and associated ditches used for flood irrigation.
Hydrologic Control	Impacted or Degraded	Larson Creek reservoir connects to wetlands, but does not have a clear connection to Larson Creek. No culvert observed under road to west.
	Des	cription
	rson Creek Reservoir. East Later ecause it is within 1/4 mile of wat	

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

comments: С

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

6	 Streams or portions of 	streams within the stue	dy area are listed as water	quality limited.	
k	 No streams or portions 	s of streams within the	study area are listed as wa	ater quality limited.	
	b	comments:			
8. Co	onsult the most recent O	regon Statewide Asses	sment of Nonpoint Source	s of Water Pollution to	determine the
wate	r quality condition of stre	am reaches in the wat	ershed upstream from the	assessment area. (If bo	oth "b" and "c"
apply	/, choose "c.")				
a	a. All upstream reaches a	are listed as no problen	n (or no data available).		
t	 One or more upstream 	reaches are listed in r	noderate water quality con	dition.	
0	c. One or more upstream	reaches are listed in s	evere water quality conditi	ion.	
	а	comments:			
	and Structure and Lane				
15 \	What percentage of area		wetland edge is dedicated		
		a. <20%	b. bet. 20% & 50%	c. >50%	
1	I. Open Space				
	2. Agriculture				
3	3. Exclusive Forest Use		see next two questions		
	 Developed uses 				
	5. Other				
15 N	flodified for WH8: What	is the dominant existin	ng land use within 500 feet	of the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	а		
	b. Agriculture				
	c. Developed uses				
			ng land use within 500 feet	<u>: of</u> the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	а		
	b. Agriculture				
	a. Developed uses				
		sting land use within 50	00 feet of the wetland on th	ne downstream or down	-slope edge of the
V	vetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	I. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	 Developed uses 				
	5. Other				
			ng land use within 500 feet	of the wetland on the d	ownstream or
	down-slope edge of the v	vetland?		_	
	a. Developed uses		С		
	b. Agriculture				
	c. Exclusive Forest Use				
17 \	What is the (entire) wetla	nd acreage?			

19 Is all or part of the wetland located within the 100	0.90 year floodplain or within an enclosed basin?
---	---

|--|

21	what is percentage wella	and area by Cowardin cla	(10% 01 more)?			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%	
	Open water (OW >6.6ft)					
	Emergent (EM)					
	Scrub-shrub (SS)					
	Forested (FO)					
21	Modified for WH1: How	many Cowardin wetland	classes are present?	-		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а	
	RURAL	a. 3 or 4	b. 2	c. 1		
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а	
23	What is the dominant we	tland vegetation cover?				
		a. woody (FO & SS)	b. emergent and	c. emergent		
			ponding, or open water	vegetation only or		
	а		only (EM w/ water or	wet meadow (EM)		
			OW)			
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)		
	а	a. high	b. moderate	c. low		
26	For urban areas, what percentage of the wetland edge is bordered by upland wildlife habitat buffer at least 25ft feet w					
	а	a. >40%	b. bet. 10% & 40%	c. <10%		
27	How is the wetland connected to other wetlands?					
		a. connected within 3	b. not connected;	c. not connected,		
	а	miles by surface water	wetlands present within	no other wetlands		
			3 miles	within 3 miles		
28	B Estimate area of unvegetated, open water within the wetland.					
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN	
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre		

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		a. salmon, trout or	b. other fish species are	c. no species are
	С	sensitive species are	present at some time	present at any time
		present at some time	during the year	during the year
		during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
а	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

b. bet. 50% & 75% a. >75% c. <50% b 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

b	a. >25%	b. bet. 10% & 25%	c. <10%
---	---------	-------------------	---------

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	e water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

36 What is the wetland's primary source of water? (emphasis on primary)

	a. surface flow,	b. precipitation or sheet	c. groundwater,
а	including streams and	flow	including springs or
	ditches		seeps
Is there evidence of flood	ling or ponding during a p	ortion of the growing seas	son?
h	a. yes (describe)	b. unable to determine	C. NO
0		or not applicable	
38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized cult			
	a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
С	outlet	down the water (i.e.,	unrestricted flow
		undersized culvert)	
	Is there evidence of flood b Is the water flow out of th	a including streams and ditches Is there evidence of flooding or ponding during a ponding during during a ponding during du	a including streams and ditches flow Is there evidence of flooding or ponding during a portion of the growing sease b b a. yes (describe) b. unable to determine or not applicable Is the water flow out of the wetland restricted (beaver dam, concrete structure a. yes, restricted or no outlet b. minor restrictions slow down the water (i.e.,



WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

a Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

- a. Streams or portions of streams within the study area are listed as water quality limited.
- b. No streams or portions of streams within the study area are listed as water quality limited.

b

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

- a. All upstream reaches are listed as no problem (or no data available).
- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	a. Developed uses				
16		sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or down-
	slope edge of the wetland	d?			
	a. Developed uses		а]	
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)	-	
		a. connected by surface		c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	•	within 1 mile	

19 Is all or part of the wetland located within the 100-ye	/ear floodplain or within an enclosed basin?
--	--

	b	a. yes	b. no
--	---	--------	-------

Wetland Habitat

21 What is percentage wetland area by Cowardin class (10% or more)?

21	what is percentage wella	and area by Cowardin da	SS (10% 01 more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)	а			
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?	·	
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	b
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	C		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	e Cowardin classes (and u	upland inclusions)? (see F	ïgure p. 37)	
	С	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		<i>i</i>		
		a. salmon, trout or	b. other fish species are	c. no species are
n/a	n/a	sensitive species are	present at some time	present at any time
	11/d	present at some time	during the year	during the year
	durin	during the year		
-				

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/aa. >75%b. bet. 50% & 75%c. <50%</th>32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a a	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,	
	а	including streams and	flow	including springs or	
		ditches		seeps	
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?	
	а	a. yes (describe)	b. unable to determine or	c. no	
			not applicable		
38	38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert				
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has	
	b	outlet	down the water (i.e.,	unrestricted flow	
			undersized culvert)		
			·	•	

(bold questions =field; office review important for 15, 16, 26)



Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	OFWAM UNIT# DRC-1				
Wildlif	Wildlife Habitat				
1	а				
2	а				
3	а				
4	С				
5	а				
6	а				
7	а				
8	а				
9b	а				
	Provide	s diverse wildlife habitat			
	abitat (if app	licable)			
Stream	ns and Rivers				
1	b				
2	а				
3	b				
4	а				
5	а				
6	С				
	and Ponds				
1					
2					
3					
4					
5					
6		eated or Degraded			
	IIIIÈ	pacted or Degraded			
		utant removal)			
1 2	a b				
2	a				
4	a				
5	a				
6	с с				
	-	acted or Degraded			
Hydro	logic Contro	(flood control & water supply)			
1	b				
2	b				
3	b				
4	С				
5	а				
6	С				
7	С				
	Impacted or Degraded				

OFWAM UNIT # BCS-12					
	Wildlife Habitat				
vvna m 1	b				
2	c c				
3	C				
4	C				
5	а				
6	b				
7	а				
8	b				
9b	С				
	Provides	habitat for some species			
	abitat (if app	licable)			
	ns and Rivers				
1					
2					
3 4					
4 5					
6					
-	and Ponds				
1					
2					
3					
4					
5					
6					
		not applicable			
	• • • • •				
	· · · ·	utant removal)			
1 2	a				
 3	a b				
4	b				
4 5	b				
6	с С				
	-	acted or Degraded			
Hydro	logic Contro	(flood control & water supply)			
1	b				
2	а				
3	b				
4	b				
5	С				
6	а				
7	а				
	Impacted or Degraded				

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: DRC-1

Function	Evaluation Descriptor	Rationale			
Wildlife Habitat	Provides diverse wildlife habitat	Likley diverse vegetation, with at least 2 wetland vegetation classes present, interspersed. Stream present. Woody vegetation; connected to tributary to Dry Creek. Surrounded by open space in Prescott Park			
Fish Habitat	Impacted or Degraded	No species recorded in Dry Creek, however natural channel shaded by vegetation in a open space area			
Water Quality	Impacted or Degraded	Somewhat diverse wetland vegetation with high percentage cover that filters water draining to Dry Creek.			
Hydrologic Control	Impacted or Degraded	Receives hydrology from stream channel and surrounding overland sheet flow and freely drains from site			
Description					
Wetland ID: W78 in tri	butary to Dry Creek				

Wetland identification: BCS-12

Function	Evaluation Descriptor	Rationale			
Wildlife Habitat	Provides habitat for some species	Flood irrigated pasture with limited diversity, one Cowardin class. Adjacent land use is flood irrigated pasture and other agriculture.			
Fish Habitat	not applicable	Highly altered irrigation canal is separated by a pump & gate. Steelhead have been recorded in Larson Creek, downstream.			
Water Quality	Impacted or Degraded	Irrigation Canal & adjoining ditch used for flood irrigation. FAC vegetation is dominated by meadow foxtail as a result of flood irrigation activities on clay soils.			
Hydrologic Control	Impacted or Degraded	Receives hydrology from ditches used for flooding along the east side of the parcel.			
Description					
Wetland ID's: W02-A & W02-B. Connected via ditching and surface flow.					

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

b Water guality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comment: Lazy creek (ajacent) water quality limited for bacteria.

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

- b. One or more upstream reaches are listed in moderate water quality condition.
- c. One or more upstream reaches are listed in severe water quality condition.
- а

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b]	
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exi	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or down-
	slope edge of the wetland	d?			
	a. Developed uses		b		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	а	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)	-	within 1 mile	

19 Is all or part of the wetland located within the 100-y	-year floodplain or within an enclosed basin?
---	---

		b	a. yes	b. no
--	--	---	--------	-------

Wetland Habitat

21 What is percentage wetland area by Cowardin class (109	% or more)?
---	-------------

21	what is percentage well	and area by Cowardin Cia				
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%	
	Open water (OW >6.6ft)					
	Emergent (EM)					
	Scrub-shrub (SS)					
	Forested (FO)					
21	Modified for WH1: How	many Cowardin wetland	classes are present?			
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а	
	RURAL	a. 3 or 4	b. 2	c. 1		
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	С	
	3 What is the dominant wetland vegetation cover?					
		a. woody (FO & SS)	b. emergent and	c. emergent		
			ponding, or open water	vegetation only or		
	C		only (EM w/ water or	wet meadow (EM)		
			OW)	· · · · ·		
24	How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)					
	b	a. high	b. moderate	c. low		
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet wi	
	С	a. >40%	b. bet. 10% & 40%	c. <10%		
27	How is the wetland conne	ected to other wetlands?	-			
		a. connected within 3	b. not connected;	c. not connected,		
	С	miles by surface water	wetlands present within	no other wetlands		
			3 miles	within 3 miles		
28	Estimate area of unvege	tated, open water within t	he wetland.	•		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN	
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre		
			•	*		

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

		· · ·		
		a. salmon, trout or	b. other fish species are	c. no species are
	0	sensitive species are	present at some time	present at any time
	C	present at some time	during the year	during the year
		during the year		
-				

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

n/aa. >75%b. bet. 50% & 75%c. <50%</th>32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	b	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	С	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

		С	a. >25%	b. bet. 10% & 25%	c. <10%
--	--	---	---------	-------------------	---------

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of floor	ling or ponding during a p	portion of the growing seas	son?
	b	a. yes (describe)	b. unable to determine or	c. no
	b		not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	С	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	
<i>.</i>		· · · · · · · ·		

(bold questions =field; office review important for 15, 16, 26)

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	NAM UNIT #	L PC-1				
	Wildlife Habitat					
1	a					
2	с с					
3	b					
4	c c					
5	a					
6	C					
7	а					
8	b					
9b	С					
	Provides	habitat for some species				
Eich H	abitat (if app	licable)				
	abilat (ii app is and Rivers					
Silean 1						
2						
3						
4						
5						
6						
Lakes	and Ponds					
1	b					
2	С					
3	С					
4	а					
5	b					
6	С					
	Imp	pacted or Degraded				
Water	Quality (poll	utant removal)				
1	a					
2	b					
3	С					
4	b					
5	b					
6	С					
	Impacted or Degraded					
Hydro	Hydrologic Control (flood control & water supply)					
1	b					
2	b					
3	b					
4	С					
5	С					
6	b					
7	b					
I	Im	pacted or Degraded				

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: LPC-1

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Surrounded by active orchards. Two Cowardin classes present. Well vegetated.
Fish Habitat	Impacted or Degraded	Artificial canal and pond - highly altered.
Water Quality	Impacted or Degraded	Adjacent to Lazy Creek. Abuts Phoenix Canal. Lacks woody vegetation with low degree of cover; small size. Adjacent agricultural land use.
Hydrologic Control	Impacted or Degraded	Connects to Phoenix Canal and irrigation pond.
	Des	scription
Wetland ID's: W61 Water ID's: AW18, and	d Phoenix Canal. More than 1/4	mile distance from Lazy Creek.

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).
- c. Forested or natural area.

b

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

comment: Larson and Bear creeks are water quality limited for multiple criteria. а

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

|--|

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	5	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture				
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	-			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space			-	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	and use within 500 feet of	f the wetland on the d	ownstream or
	down-slope edge of the v	vetland?			
	a. Developed uses		b		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	
	b	water (culv., ditch,	water body within 1 mile	no water bodies	
		int./per. stream)		within 1 mile	

19 Is all or	part of the wetland	l located within the	100-year floodplai	in or within an e	enclosed basin?
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b a. yes b. no

Wetland Habitat

21	what is percentage wella	and area by Cowardin Cla	ss (10% of more)?		
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?	1	
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	а		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
0	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
n/a	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

b. bet. 50% & 75% n/a a. >75% c. <50% 32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%
-----	---------	-------------------	---------

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,
	а	including streams and	flow	including springs or
		ditches		seeps
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?
	2	a. yes (describe)	b. unable to determine	C. NO
	а		or not applicable	
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
	а	outlet	down the water (i.e.,	unrestricted flow
			undersized culvert)	

(bold questions =field; office review important for 15, 16, 26)

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

- 6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)
 - a. Urban or urbanizing (mix of urban, agriculture and forest uses).
 - b. Agriculture (farming, ranching or grazing).
 - c. Forested or natural area.

b comments:

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

a comments: Larson creek is listed as water quality limited for temperature, bacteria.

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

a comments: Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	5	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	-	b		
	b. Agriculture			4	
	c. Developed uses				
15		is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use		b	Ĩ	
	b. Agriculture			1	
	a. Developed uses				
16	•	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
-	wetland?	3			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16		is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v	•			
	a. Developed uses		b]	
	b. Agriculture		-	1	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla				
••			b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte				
		a. connected by surface		c. not connected,	Connection
	а	-	water body within 1 mile	no water bodies	estimated - not
	~	int /per_stream)		within 1 mile	confirmed

19 ls	s all or	part of the	wetland I	ocated with	in the 1	100-year	floodplain o	or within a	an enclosed	basin?
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|--|

Wetland Habitat

21	what is percentage wella	and area by Cowardin Cla			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	а
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
	What is the dominant we		Ū (,	
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	а		only (EM w/ water or	wet meadow (EM)	
			OŴ)	× /	
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?	•		
		a. connected within 3	b. not connected;	c. not connected,	
	а	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.	•	
	С	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
C C	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

			c. extensively modified or confined in a non- vegetated channel or pipe	Connection estimated - not confirmed
--	--	--	---	--

31 What percentage of the stream is shaded by riparian vegetation? a a > 75% b bet 50% & 75%

	а	i	a. >75%		b. bet. 50% &	75%	c. <50%	
32	What percentage	e of the st	tream contains instre	eam s	structures sucl	h as large w	oody debris,	
	floating/submerge	ed vegeta	ation, large rocks or	bould	ders?			

a. >25% b. bet. 10% & 25% c. <10% С

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes		b. cannot be	determined	c. no	
34	What percentage of the s	shoreline	s shaded at the	water's edge	by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% c	or more	b. bet. 20% 8	k <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%	

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,	East Lateral
	а	including streams and	flow	including springs or	Canal
		ditches		seeps	
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?	
	а	a. yes (describe)	b. unable to determine	c. no	
			or not applicable		
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)?
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has	
	С	outlet	down the water (i.e.,	unrestricted flow	
			undersized culvert)		

(bold questions =field; office review important for 15, 16, 26)

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OF	WAM UNIT#	LSC-1
	e Habitat	
1	a	
2	a	
3	b	
4	С	
5	b	
6	b	
7	а	
8	b	
9b	С	
	Provides	habitat for some species
Fish H	abitat (if app	licable)
Stream	is and Rivers	
1		
2		
3		
4		
5		
6		
Lakes	and Ponds	
1		
2		
3		
4		
5		
6		Net ee ele ele
		Not applicable
Water	Quality (poll	utant removal)
1	а	
2	а	
3	а	
4	b	
5	b	
6	С	
		Intact
Hvdro	logic Control	(flood control & water supply)
1	b	
2	a	
3	b	
4	а	
5	а	
6	b	
7	b	
	Imp	bacted or Degraded

OFWAM UNIT # LSC-2					
	Wildlife Habitat				
1	a				
2	a				
3	b				
4	C				
5	a				
6	а				
7	а				
8	b				
9b	С				
	Provides h	abitat for some species			
	abitat (if app	licable)			
	ns and Rivers				
1	а				
2	b				
3	С				
4	a				
5	b				
6	С				
	and Ponds				
1	n/a				
2	n/a				
3	n/a				
4	n/a				
5 6	n/a n/a				
0		acted or Degraded			
	inpa				
Water	Quality (poll	utant removal)			
1	а				
2	а				
3	а				
4	b				
5	b				
6	С				
		Intact			
I					
		(flood control & water supply)			
1	b				
2	a				
3	C				
4	C				
5	a k				
6 7	b				
	b	ected or Degraded			
	impa	acted or Degraded			

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: LSC-1

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Heavily impacted by cattle. Isolated, habitat not interspersed, low structural diversity, no open water. Two Cowardin classes; scrub-shrub dominated.
Fish Habitat	Not applicable	Drainage is ephemeral.
Water Quality	Intact	Ponding observed during site visit. PSS component is well vegetated with willow.
Hydrologic Control	Impacted or Degraded	Sheet flow and ephemeral drainage provide hydrology. Surrounding land use is agriculture.
	Des	cription
Wetland ID's: W15. Water ID's: Feeds to N	/lud Creek	

Wetland identification: LSC-2

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Habitat with limited interspersion, some structural diversity, no open water. Two Cowardin classes; PSS dominated with emergent understory. Connected to Mud Creek and associated riparian vegetation. Adjacent land use is agricultural.
Fish Habitat	Impacted or Degraded	Unnamed tributary is intermittent or emphemeral and flows into intermittent Mud Creek. Unable to determine whether there is an "unimpeded surface water connection to the stream". If there is no connection, this function is not applicable.
Water Quality	Intact	Ponding occurs in wetland, and two Cowardin classes are present; PSS dominated with emergent understory.
Hydrologic Control	Impacted or Degraded	Not located on a floodplain. Surrounded by pasture. Wetland is associated with drainage which feeds to Mud Creek.
	Dese	cription
Wetland ID's: W62 Water ID's: Ditch feed	s to Mud Creek	

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)

- a. Urban or urbanizing (mix of urban, agriculture and forest uses).
- b. Agriculture (farming, ranching or grazing).

c. Forested or natural area.

b comments: not visually confirmed

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

comments: Larson creek is listed as water quality limited for temperature, bacteria. а

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

comments: а

Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use	.	see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?				
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses				
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v	vetland?		_	
	a. Developed uses		b		
	b. Agriculture			-	
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	а	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	
18	How is wetland connecte	d to a stream, lake, or po	nd? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	Connection
	а	water (culv., ditch,	water body within 1 mile	no water bodies	estimated - not
		int /per_stream)		within 1 mile	confirmed

19 Is all or	part of the wetland	l located within the	100-year floodplai	in or within an e	enclosed basin?
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b a. yes b. no

Wetland Habitat

21	what is percentage wella	and area by Cowardin Cla				
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%	
	Open water (OW >6.6ft)					
	Emergent (EM)					
	Scrub-shrub (SS)					
	Forested (FO)					
21	Modified for WH1: How	many Cowardin wetland	classes are present?			
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b	
	RURAL	a. 3 or 4	b. 2	c. 1		
21	Modified for WQ3: What	t is the degree of wetland	l vegetation cover (a.H>60)%/ b.M/ c.L<60%)?	b	
23	What is the dominant we	tland vegetation cover?				
		a. woody (FO & SS)	b. emergent and	c. emergent		
	b		ponding, or open water	vegetation only or		
	b		only (EM w/ water or	wet meadow (EM)		
			OW)			
24	How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)					
	b	a. high	b. moderate	c. low		
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplar	nd wildlife habitat buffe	r at least 25ft feet w	
	b	a. >40%	b. bet. 10% & 40%	c. <10%		
27	How is the wetland conne	ected to other wetlands?				
		a. connected within 3	b. not connected;	c. not connected,		
	b	miles by surface water	wetlands present within	no other wetlands		
			3 miles	within 3 miles		
28	Estimate area of unveger	tated, open water within t	he wetland.			
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN	
-	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre		

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	C	a. salmon, trout or	b. other fish species are	c. no species are
		sensitive species are	present at some time	present at any time
		present at some time	during the year	during the year
		during the year		
-				

Streams connected to the wetland

30 What is the physical character of the stream channel?

a			c. extensively modified or confined in a non- vegetated channel or pipe	Connection estimated - not confirmed
---	--	--	---	--

31 What percentage of the stream is shaded by riparian vegetation?

	b	a. >75%	b. bet. 50% & 75%	c. <50%
32	What percentage of the s	tream contains instream	structures such as large w	voody debris,
	flashin n/a da na ann a du canad			

floating/submerged vegetation, large rocks or boulders?

b a. >25% b. bet. 10% & 25% c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	c. no	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%	

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

		a. surface flow,	b. precipitation or sheet	c. groundwater,	East Lateral
	а	including streams and	flow	including springs or	Canal
		ditches		seeps	
37	Is there evidence of flood	ling or ponding during a p	portion of the growing seas	son?	
	b	a. yes (describe)	b. unable to determine	c. no	
	-		or not applicable		
38	Is the water flow out of th	e wetland restricted (bea	ver dam, concrete structu	re, undersized culvert)?
		a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has	
	С	outlet	down the water (i.e.,	unrestricted flow	
			undersized culvert)		

(bold questions =field; office review important for 15, 16, 26)

WETLAND CHARACTERIZATION QUESTIONS

Land uses within the watershed

- 6. What is the dominant land use in the watershed upstream from the assessment area? (Modified for HC7)
 - a. Urban or urbanizing (mix of urban, agriculture and forest uses).
 - b. Agriculture (farming, ranching or grazing).
 - c. Forested or natural area.

b comments:

Water quality - see DEQ website

7. Consult the most recent State of Oregon DEQ 305(b) Report to determine whether any streams in the study area are listed as water quality limited (included in CWA 303(d) reporting).

a. Streams or portions of streams within the study area are listed as water quality limited.

b. No streams or portions of streams within the study area are listed as water quality limited.

comments: Larson creek is listed as water quality limited for temperature, bacteria. а

8. Consult the most recent Oregon Statewide Assessment of Nonpoint Sources of Water Pollution to determine the water quality condition of stream reaches in the watershed upstream from the assessment area. (If both "b" and "c" apply, choose "c.")

a. All upstream reaches are listed as no problem (or no data available).

b. One or more upstream reaches are listed in moderate water quality condition.

c. One or more upstream reaches are listed in severe water quality condition.

comments: а Wetland Structure and Landscape

15 What percentage of area within 500 feet of the wetland edge is dedicated to these land uses?

		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space				
	2. Agriculture				
	3. Exclusive Forest Use		see next two questions		
	4. Developed uses				
	5. Other				
15	Modified for WH8: What	is the dominant existing	land use within 500 feet o	f the wetland's edge?	
	a. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	c. Developed uses				
15	Modified for WQ5: What	is the dominant existing	land use within 500 feet c	of the wetland's edge?	
	c. Exclusive Forest Use	or Open Space	b		
	b. Agriculture			-	
	a. Developed uses				
16	What is the dominant exist	sting land use within 500	feet of the wetland on the	downstream or down	-slope edge of the
	wetland?	C C			
		a. <20%	b. bet. 20% & 50%	c. >50%	
	1. Open Space		L	1	
	2. Agriculture				
	3. Exclusive Forest Use		see next question		
	4. Developed uses		-		
	5. Other				
16	Modified for HC6: What	is the dominant existing	land use within 500 feet o	f the wetland on the d	ownstream or
	down-slope edge of the v	vetland?			
	a. Developed uses		b		
	b. Agriculture				
	c. Exclusive Forest Use	or Open Space			
17	What is the (entire) wetla	nd acreage?			
	b	a. >5 acres	b. bet. 0.5 & 5 acres	c. < 0.5 acres	1
18	How is wetland connecte	d to a stream, lake, or po	nd ? (see Figure, p. 35)		
		a. connected by surface	b. not connected to	c. not connected,	1
	а	water (culv., ditch,	water body within 1 mile	no water bodies	l l
		int (ner stream)	-	within 1 mile	

19 ls	s all or	part of the	wetland I	ocated with	in the 1	100-year	floodplain o	or within a	an enclosed	basin?
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Wetland Habitat

21 What is percentage wetland area by C	Cowardin class (10% or more)?
---	-------------------------------

21	what is percentage wella	and area by Cowardin cla			
		a. bet. 70% & 100%	b. bet. 50% & <70%	c. bet. 20% & <50%	d. bet. 10% & <20%
	Open water (OW >6.6ft)				
	Emergent (EM)				
	Scrub-shrub (SS)				
	Forested (FO)				
21	Modified for WH1: How	many Cowardin wetland	classes are present?		
	URBAN	a. Two or more	b. One w/ > 5 species	c. One w/ < 5 specie	b
	RURAL	a. 3 or 4	b. 2	c. 1	
21	Modified for WQ3: What	t is the degree of wetland	vegetation cover (a.H>60	%/ b.M/ c.L<60%)?	а
23	What is the dominant we	tland vegetation cover?			
		a. woody (FO & SS)	b. emergent and	c. emergent	
			ponding, or open water	vegetation only or	
	а		only (EM w/ water or	wet meadow (EM)	
			OW)		
24	How interspersed are the	Cowardin classes (and	upland inclusions)? (see F	igure p. 37)	
	b	a. high	b. moderate	c. low	
26	For urban areas, what pe	ercentage of the wetland	edge is bordered by uplan	d wildlife habitat buffe	r at least 25ft feet w
	С	a. >40%	b. bet. 10% & 40%	c. <10%	
27	How is the wetland conne	ected to other wetlands?			
		a. connected within 3	b. not connected;	c. not connected,	
	b	miles by surface water	wetlands present within	no other wetlands	
			3 miles	within 3 miles	
28	Estimate area of unveget	tated, open water within t	he wetland.		
	C	a. >1 acres	b. bet. 0.5 and 1 acre	c. <0.5 acre	URBAN
	RURAL	a. >3 acres	b. bet. 0.5 and 3 acre	c. <0.5 acre	

Fisheries Habitat

29 Are fish present in a stream, lake or pond connected to the wetland?

	a. salmon, trout or	b. other fish species are	c. no species are
0	sensitive species are	present at some time	present at any time
C	present at some time	during the year	during the year
	during the year		

Streams connected to the wetland

30 What is the physical character of the stream channel?

	a. natural channel, or	b.only portions of stream	c. extensively
	modified portions are	modified	modified or
b	returning to a natural		confined in a non-
	channel		vegetated channel
			or pipe

31 What percentage of the stream is shaded by riparian vegetation?

ca. >75%b. bet. 50% & 75%c. <50%</th>32 What percentage of the stream contains instream structures such as large woody debris,

floating/submerged vegetation, large rocks or boulders?

c a. >25% b. bet. 10% & 25% c. <10%

Lakes or ponds (entire lake or pond and wetland complex)

33 Does the lake or pond contain areas of deep and shallow water?

	n/a	a. yes	b. cannot be determined	C. NO	
34	What percentage of the s	horeline is shaded at the	water's edge by forested	or scrub-shrub vegeta	ation?
	n/a	a. 60% or more	b. bet. 20% & <60%	c. <20%	

35 What percentage of the wetland complex contains cover objects such as submerged logs, floating or submerged vegetation, large rocks or boulders?

n/a	a. >25%	b. bet. 10% & 25%	c. <10%

Wetland Hydrology

36 What is the wetland's primary source of water? (emphasis on primary)

	a. surface flow,	b. precipitation or sheet	c. groundwater,
а	including streams and	flow	including springs or
	ditches		seeps
Is there evidence of flood	ling or ponding during a p	ortion of the growing seas	son?
h	a. yes (describe)	b. unable to determine	C. NO
0		or not applicable	
8 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)			
	a. yes, restricted or no	b. minor restrictions slow	c. no, outlet has
С	outlet	down the water (i.e.,	unrestricted flow
		undersized culvert)	
	Is there evidence of flood b Is the water flow out of th	a including streams and ditches Is there evidence of flooding or ponding during a ponding during during a ponding during du	a including streams and ditches flow Is there evidence of flooding or ponding during a portion of the growing sease b b a. yes (describe) b. unable to determine or not applicable Is the water flow out of the wetland restricted (beaver dam, concrete structure a. yes, restricted or no outlet b. minor restrictions slow down the water (i.e.,

(bold questions =field; office review important for 15, 16, 26)

Oregon Freshwater Wetland Assessment Function Questions Answer Sheet

OFWAM UNIT# LSC-3			
Wildlife Habitat			
1	b		
2	b		
3	b		
4	С		
5	а		
6	b		
7	а		
8	b		
9b	b		
	Provides	habitat for some species	
Fiah U	abitat /if ann	liashla)	
	abitat (if app	nicapiej	
Stream 1	b b		
2	a		
3	b b		
4	a		
5	b		
6	c		
Lakes	and Ponds		
1			
2			
3			
4			
5			
6			
	Imp	acted or Degraded	
Wator	Quality (poll	utant removal)	
1	a a		
2	b		
3	b		
4	b		
5	b		
6	С		
	Impacted or Degraded		
	-	(flood control & water supply)	
1 2	b		
<u></u> 3	b		
<u> </u>	a		
4 5	c b		
6	b		
7	b		
,		acted or Degraded	

OFWAM UNIT # LSC-4			
Wildlife Habitat			
1	b		
2	a		
3	b		
4	С		
5	а		
6	b		
7	а		
8	b		
9b	C		
	Provides	habitat for some species	
Eich H	abitat (if app	licable)	
	abitat (ii app ns and Rivers		
1	C		
2	b		
3	С		
4	a		
5	b		
6	С		
Lakes	and Ponds		
1			
2			
3			
4 5			
5 6			
0	Imp	acted or Degraded	
	inp		
Water	Quality (poll	utant removal)	
1	a		
2	b		
3	а		
4	b		
5	b		
6	C	ested or Degraded	
	Impacted or Degraded		
Hydro	logic Control	l (flood control & water supply)	
nyuro 1	b		
2	b		
3	b		
4	C		
5	a		
6	b		
7	b		
Impacted or Degraded			

Oregon Freshwater Wetland Assessment Function and Condition Summary Sheet

Wetland identification: LSC-3

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Habitat with limited interspersion, some structural diversity, no open water. One Cowardin class; herbaceous dominated. Adjacent to a small portion of intermittent Mud Creek, and to the east lateral canal. Adjacent land use is agricultural.
Fish Habitat	Impacted or Degraded	Mud Creek is intermittent. Unable to determine whether there is an "unimpeded surface water connection to the stream". If there is no connection, this function is not applicable.
Water Quality	Impacted or Degraded	Potentially fed by flood irrigation from the East Lateral Canal. No evidence of ponding. Connection to Mud Creek not confirmed.
Hydrologic Control	Impacted or Degraded	Not located on a floodplain. Surrounded by pasture. Fed potentially by flood irrigation waters from East Lateral Canal and drains down towards Mud Creek.
	Dese	cription
	d W64 - connected wetlands rece al Canal and potentially Mud Cre	eiving hydrology from leaking East Lateral Canal. ek.

Wetland identification: LSC-4

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some species	Surrounded by agriculture. Well vegetated, however relatively small and isolated.
Fish Habitat	Impacted or Degraded	Drainages / ditches likely to be altered by agricultural activities.
Water Quality	Impacted or Degraded	Small wetland - associated with a minor drainage within an agricultural setting.
Hydrologic Control	Impacted or Degraded	Not located in a floodplain. Agriculture immediately downstream.
	Dese	cription
Wetland ID: W62		
Water ID's: Ditch feed	s to Mud Creek	

Appendix F

Maps and Figures

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Appendix F Contents

Figure A. Project location

- Figure B. Index Map for Figure Series C (Soil maps), D (Topography maps), and E (NWI and County Hydrography Maps)
- Figure Series C. NRCS Soil Maps
- Figure Series D. USGS Topography Maps
- Figure Series E. NWI and Hydrography Maps
- Figure Series F. Index map and Drainage Basin Guide; and LWI Maps (under separate cover)
- Figure Series G. Poster sized LWI Maps

Figure A. Project location

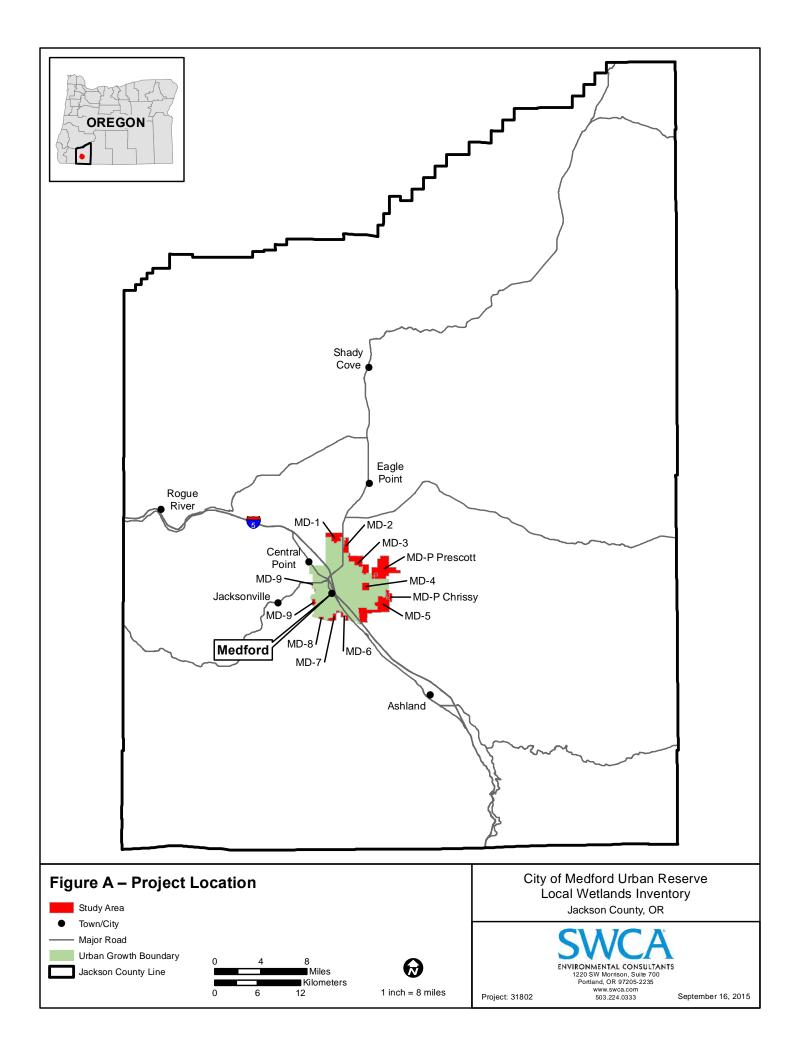


Figure B. Index Map for Figure Series C (Soil maps), D (Topography maps), and E (NWI and County Hydrography Maps)

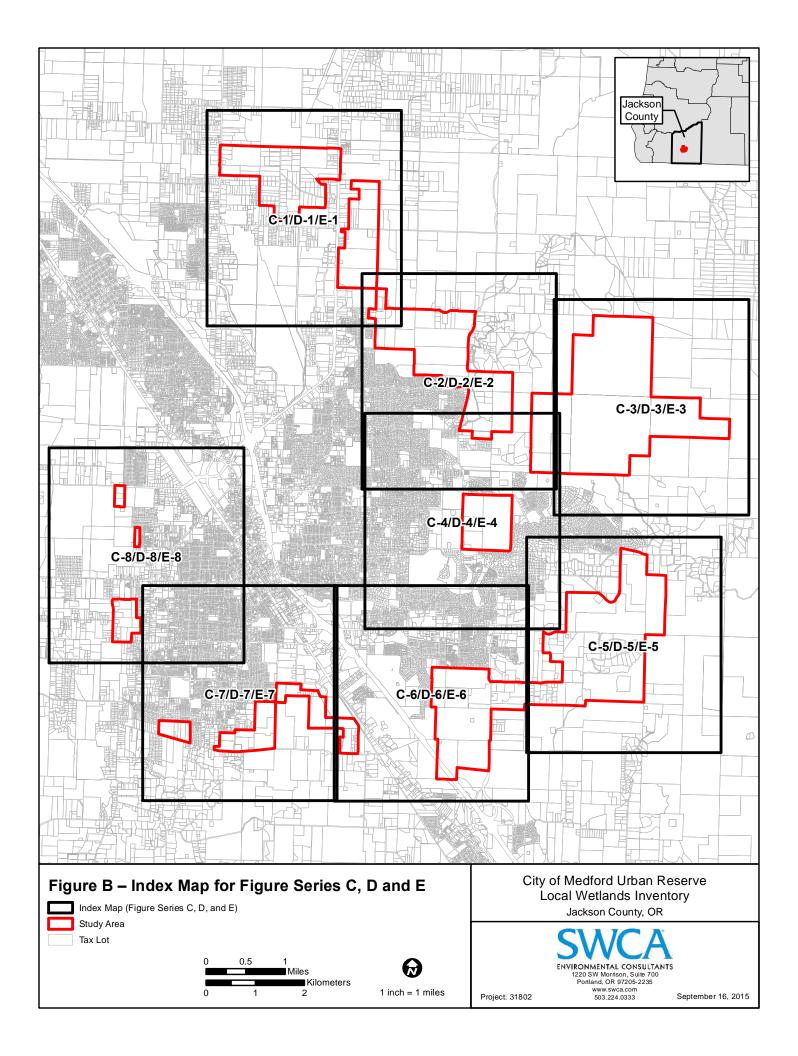
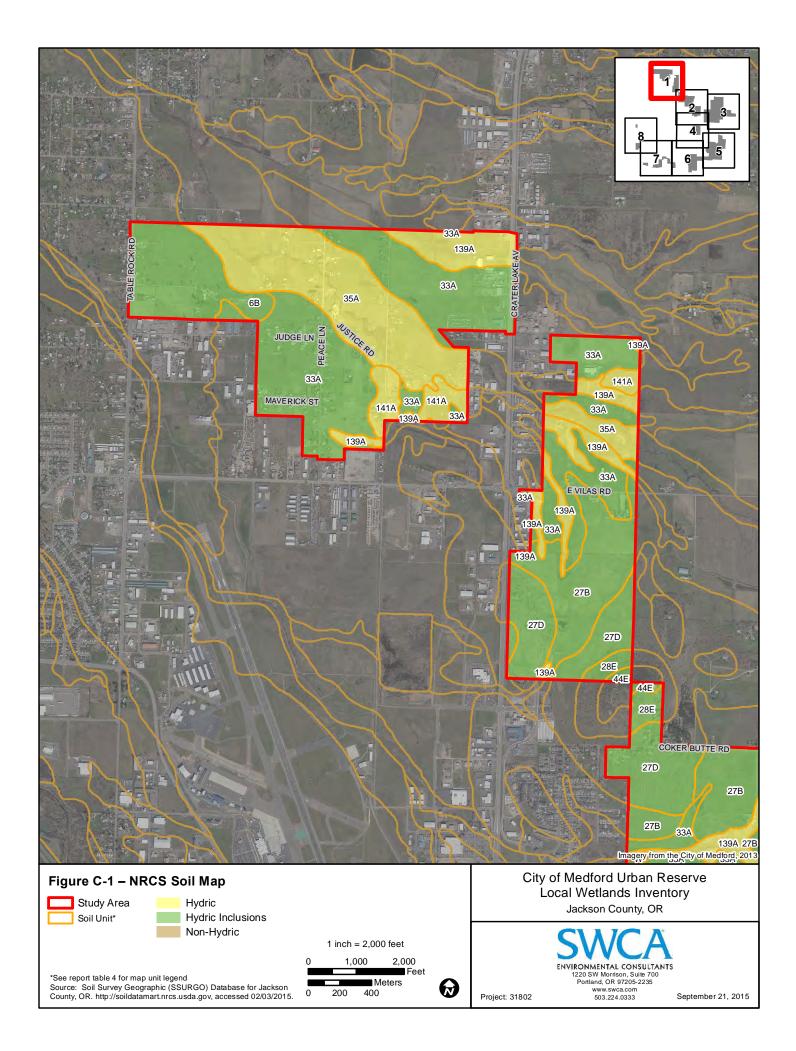
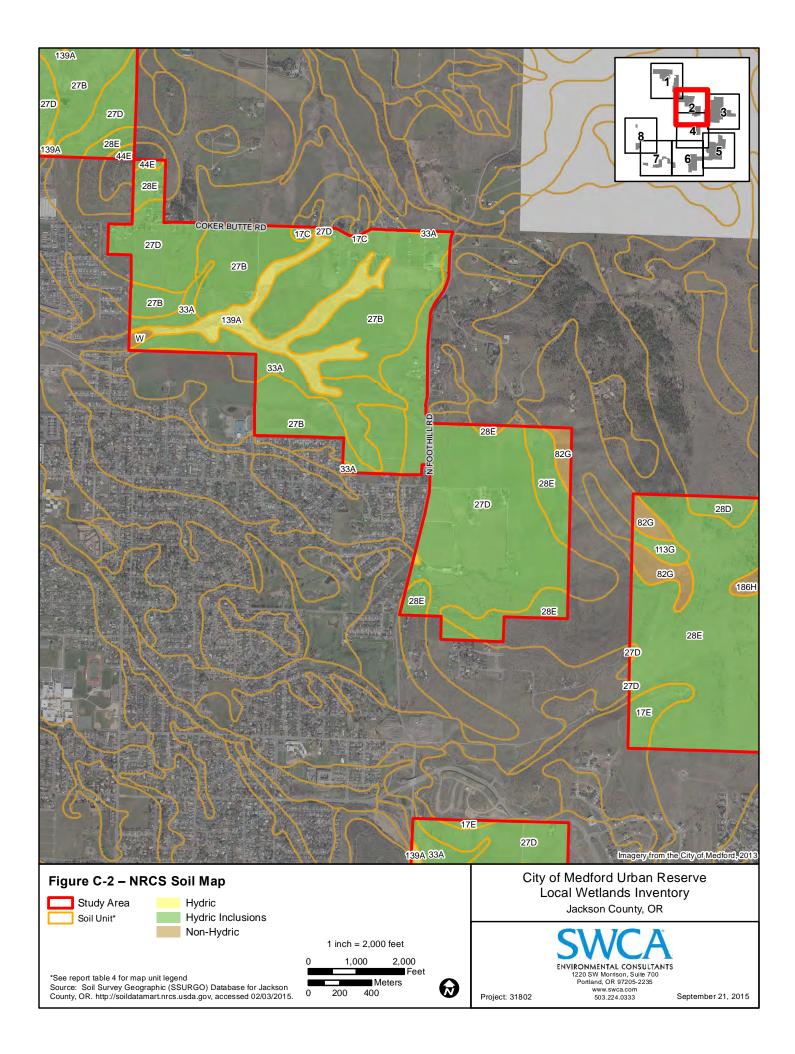
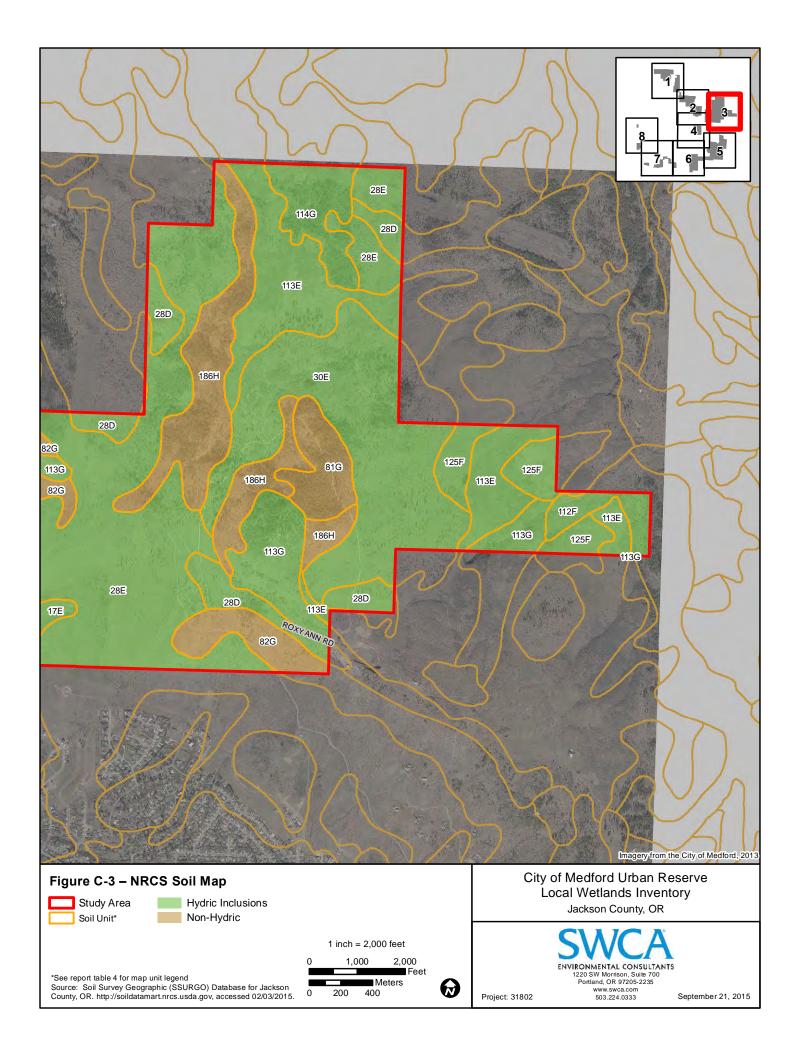
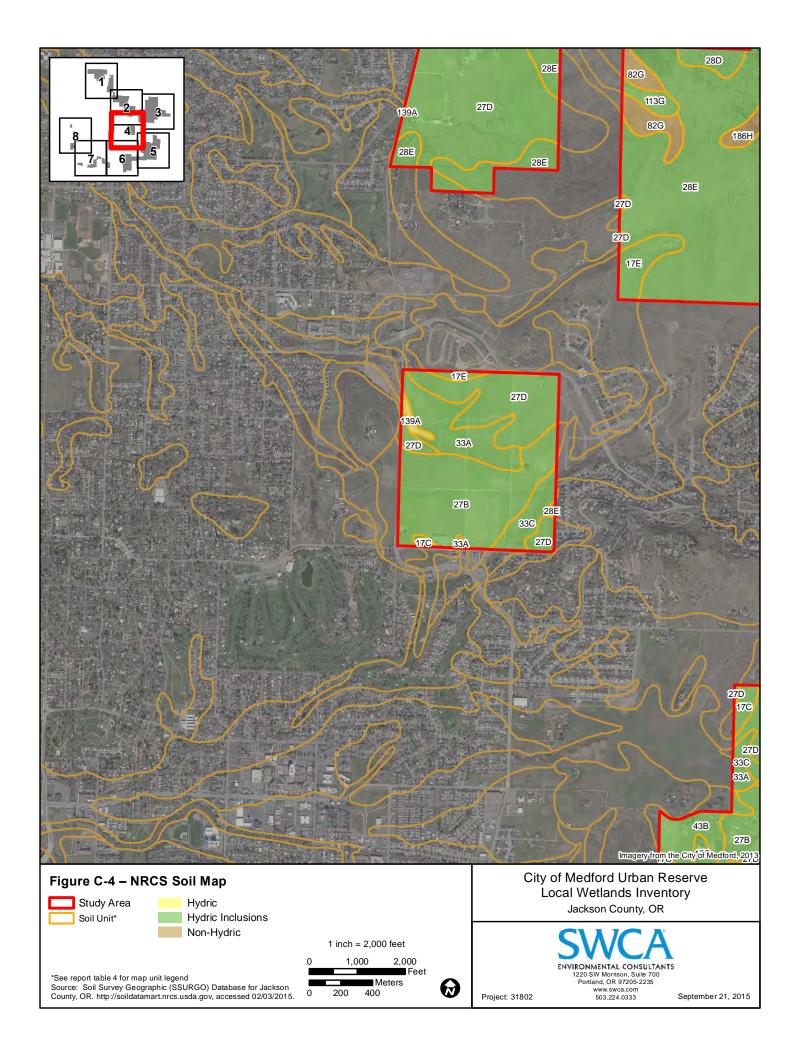


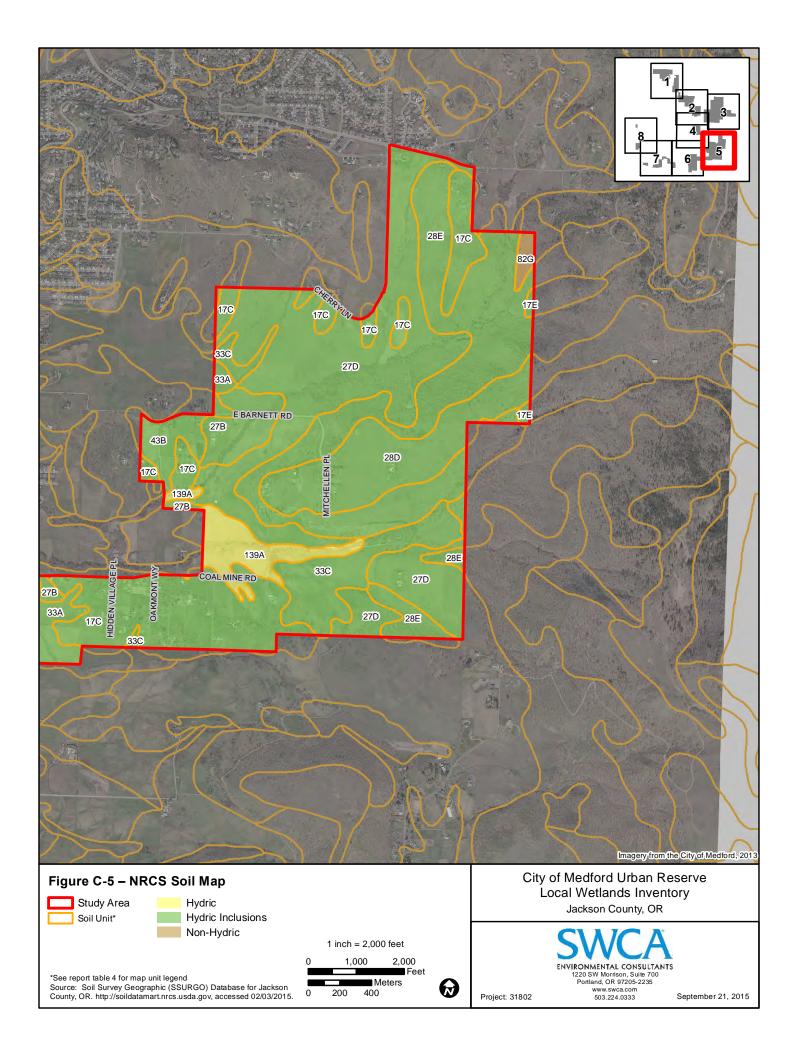
Figure Series C. NRCS Soil Maps

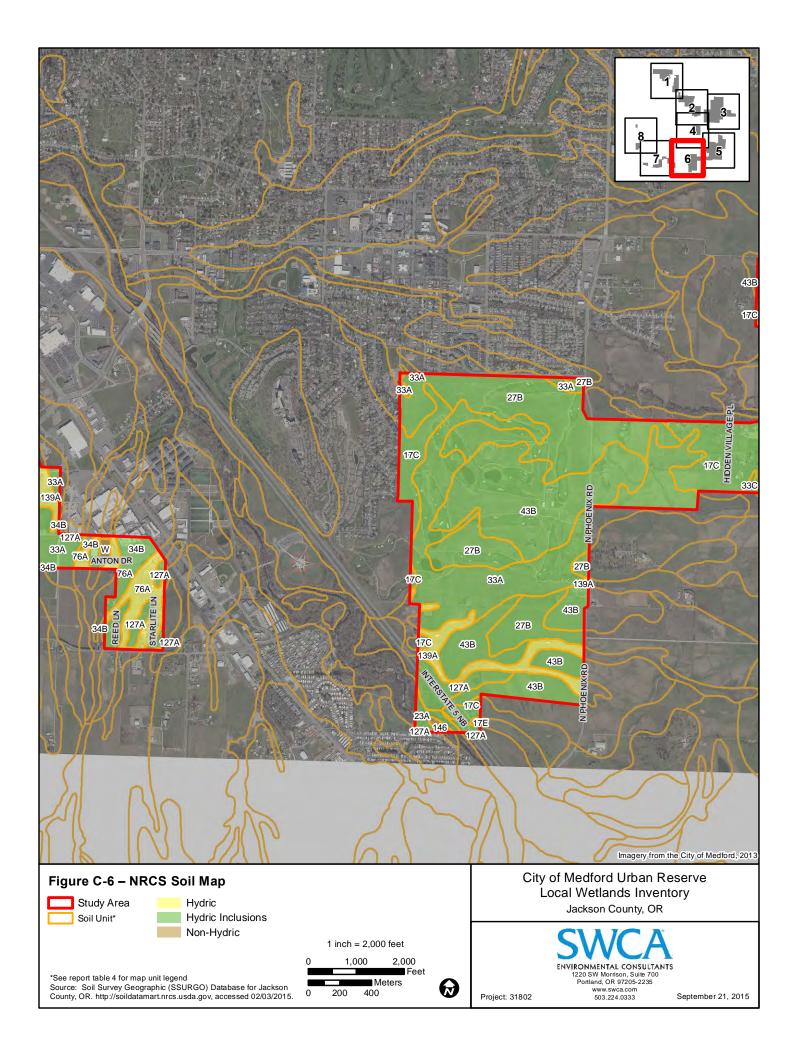


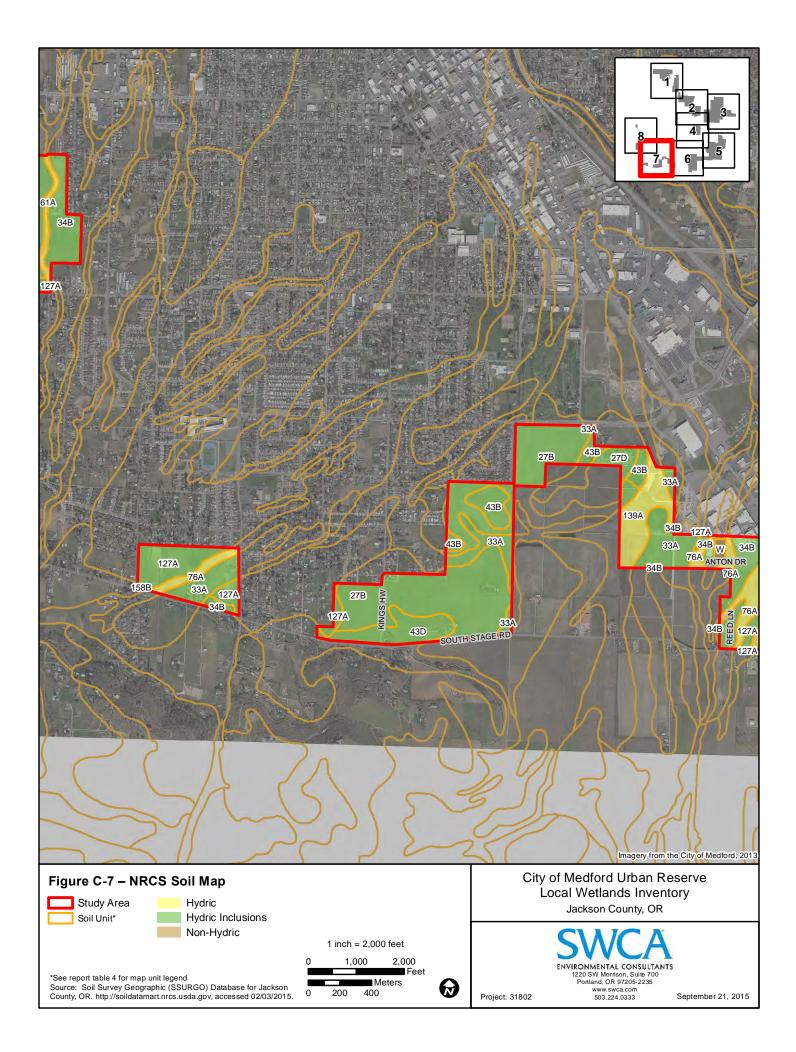












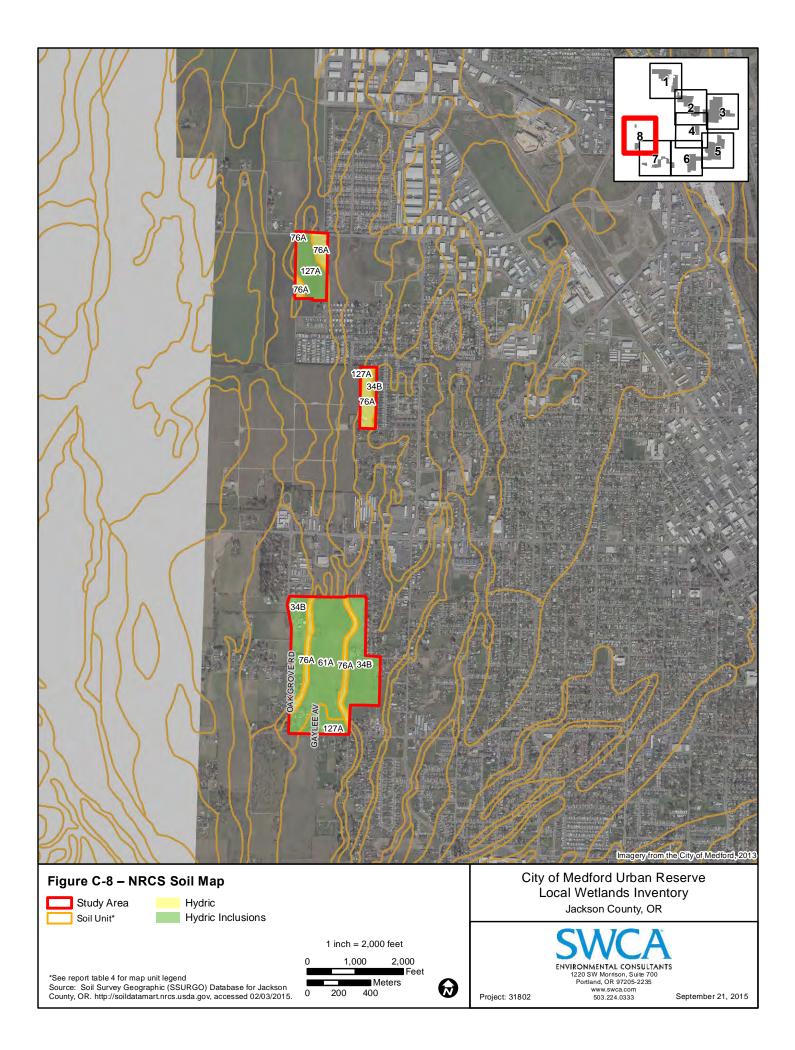
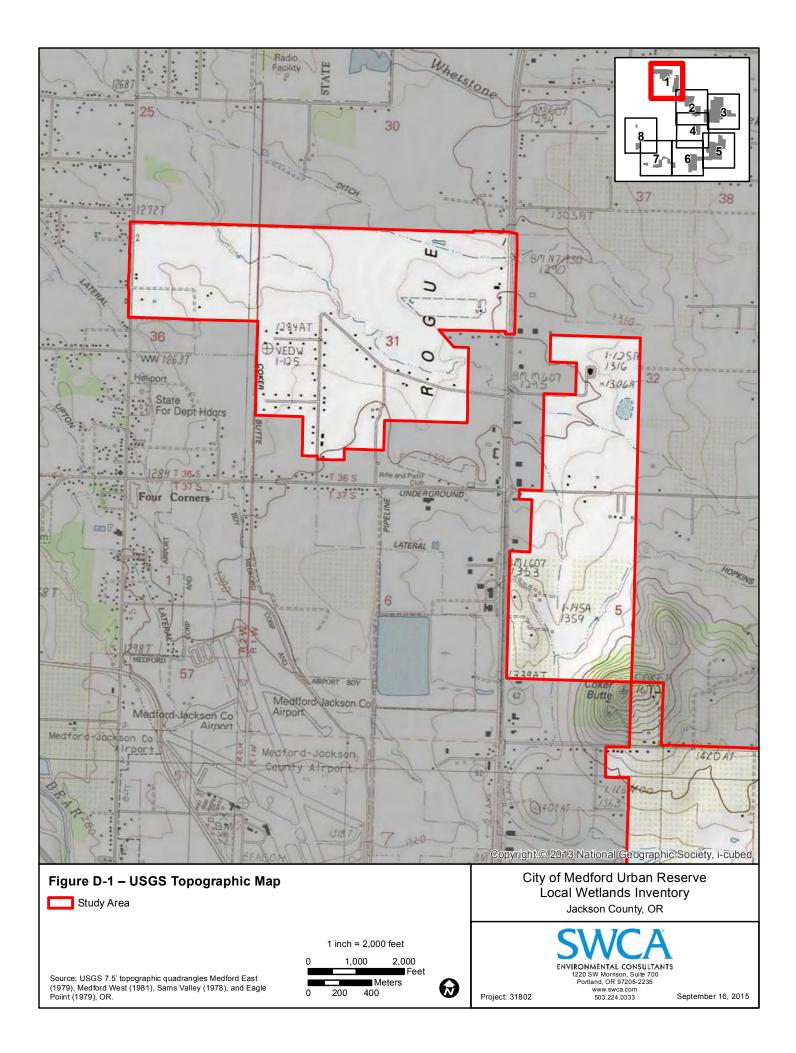
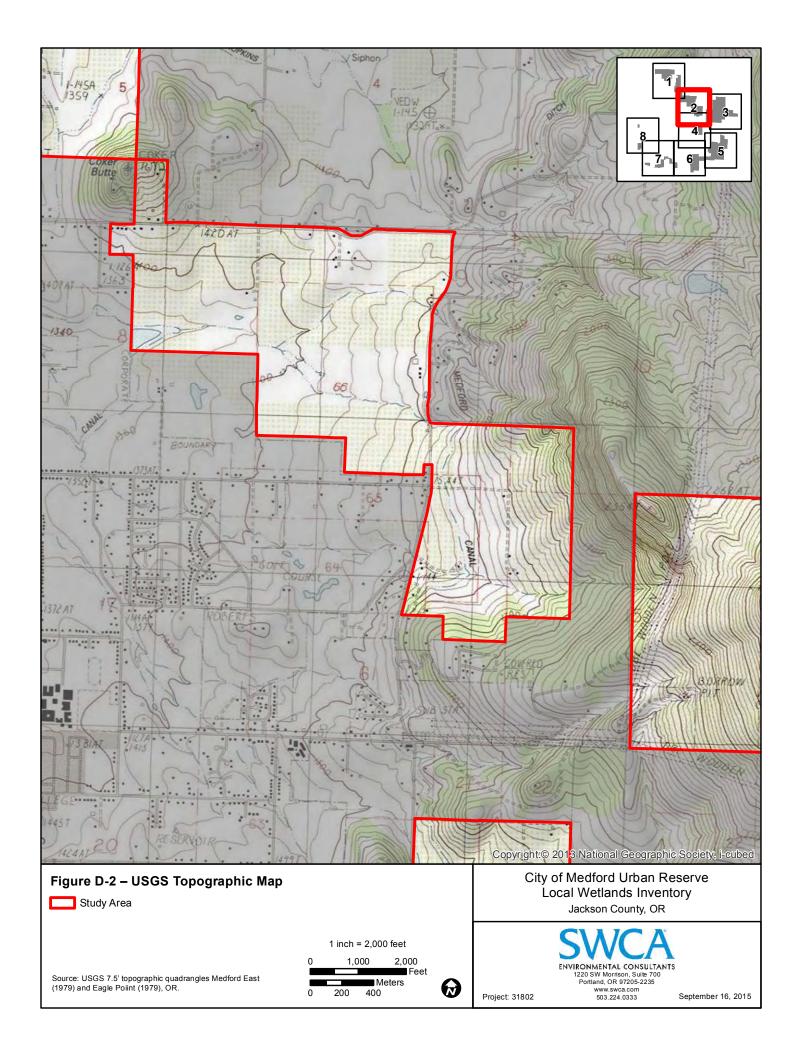
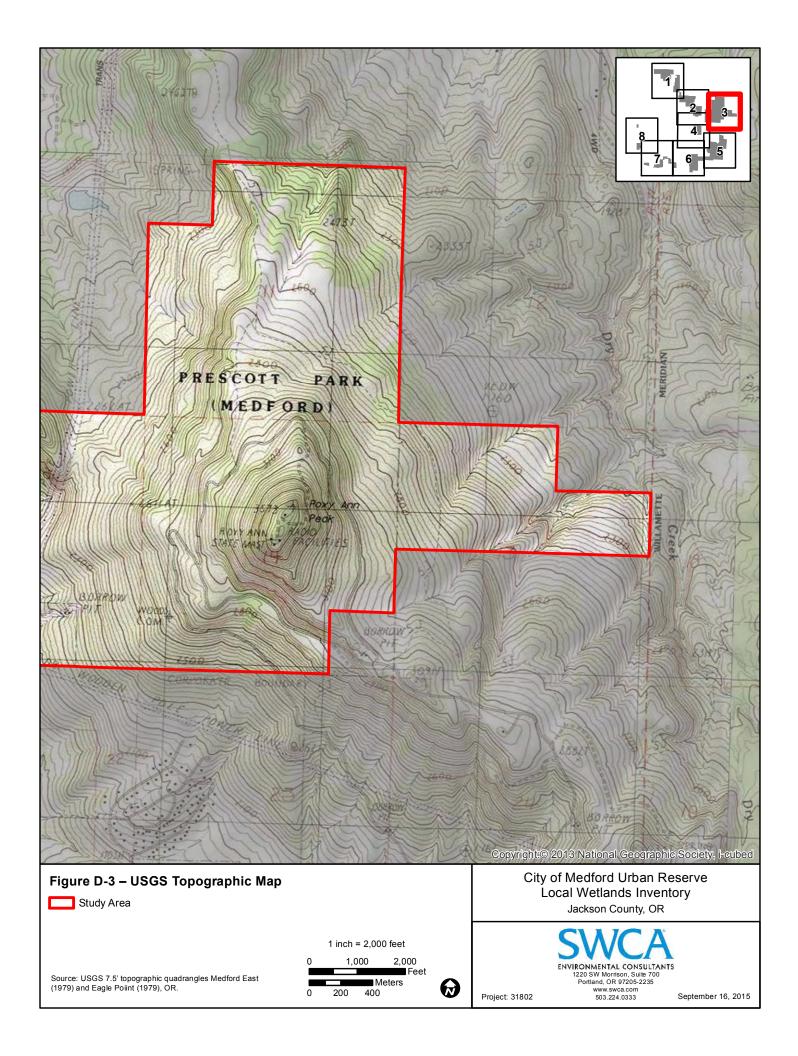
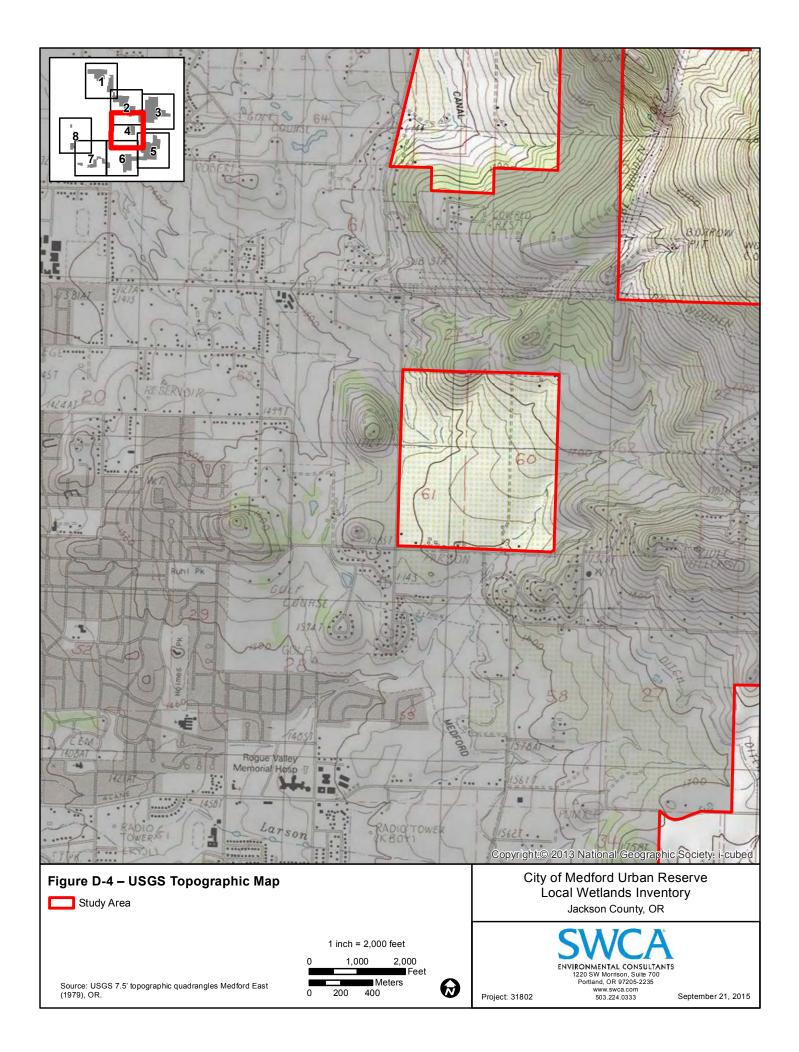


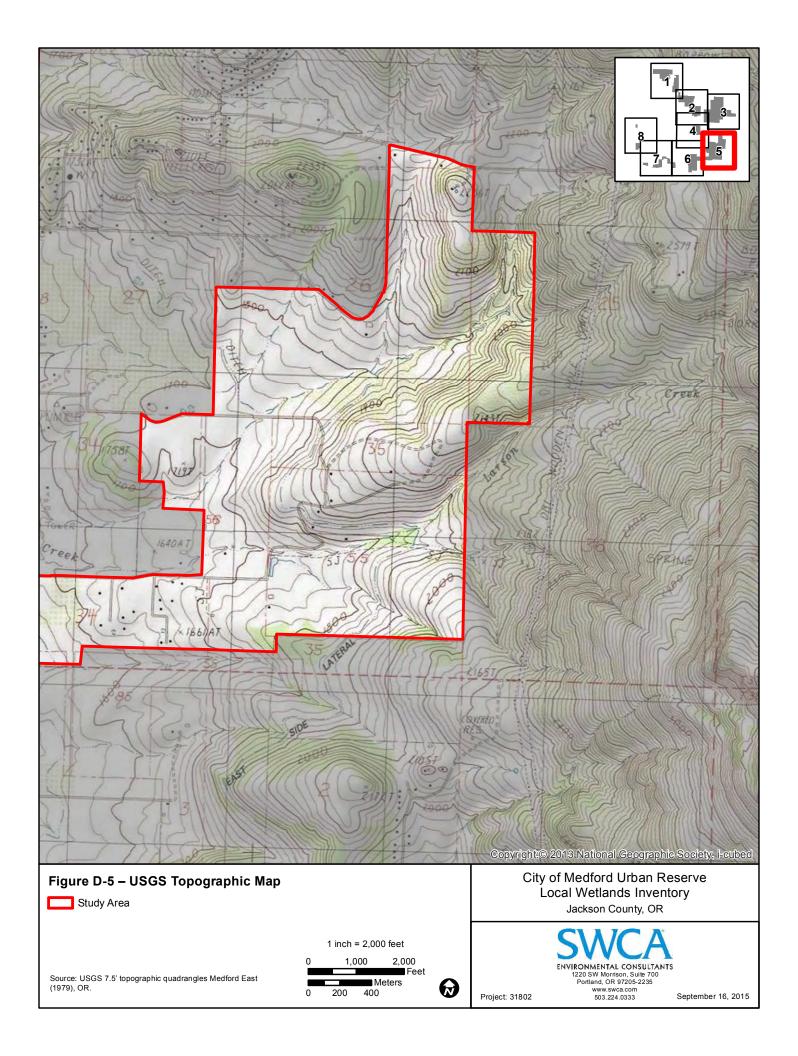
Figure Series D. USGS Topography Maps

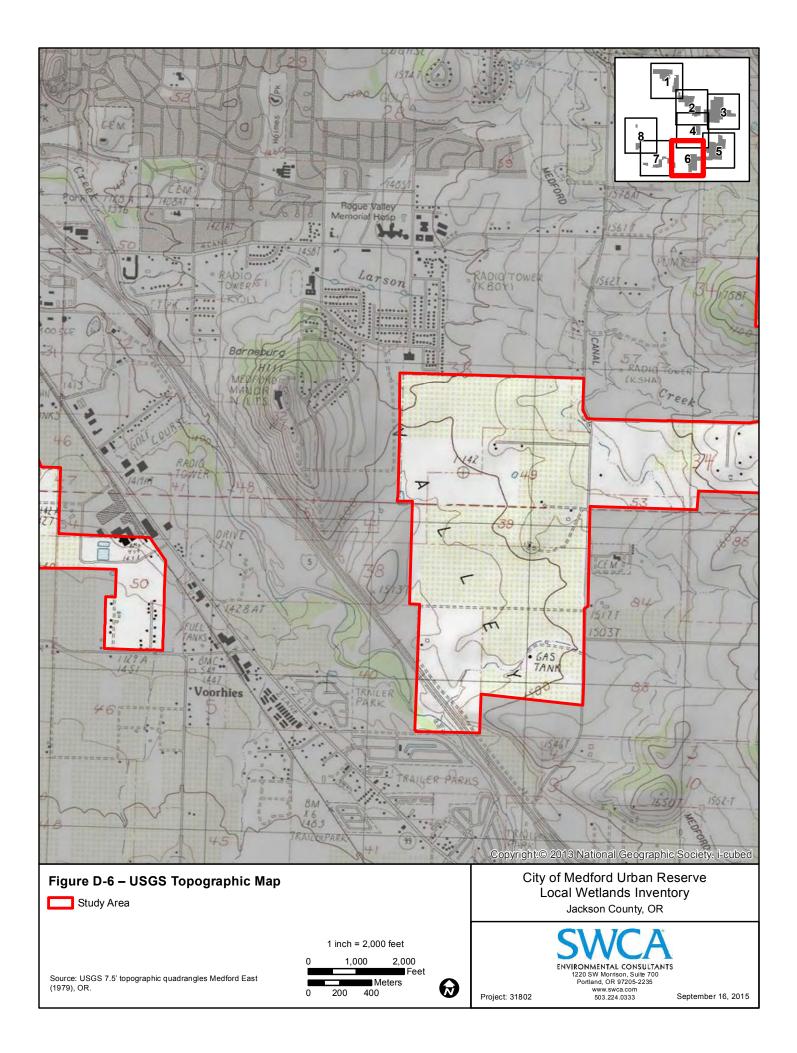


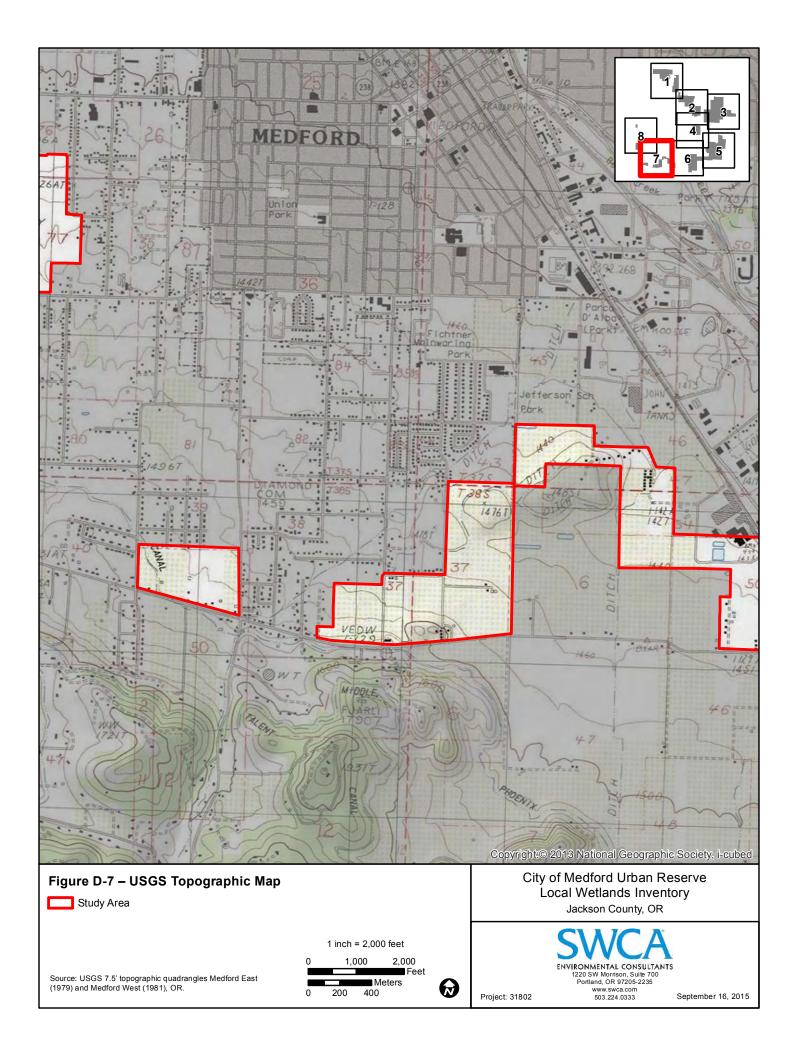












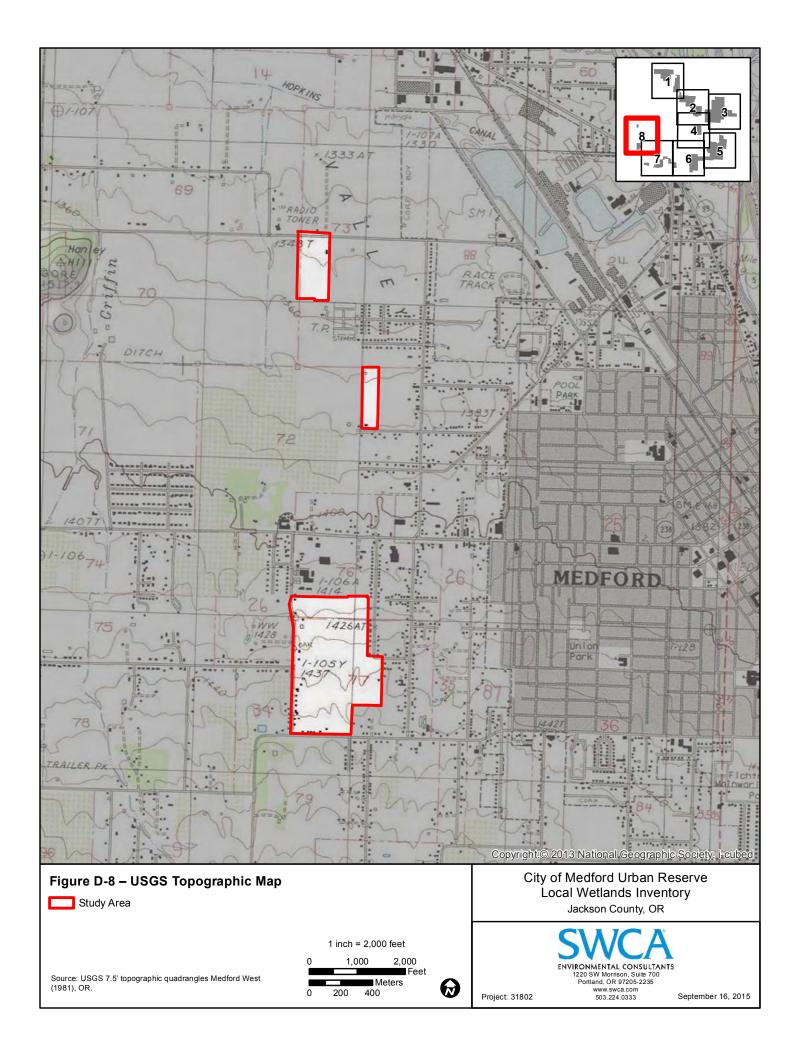
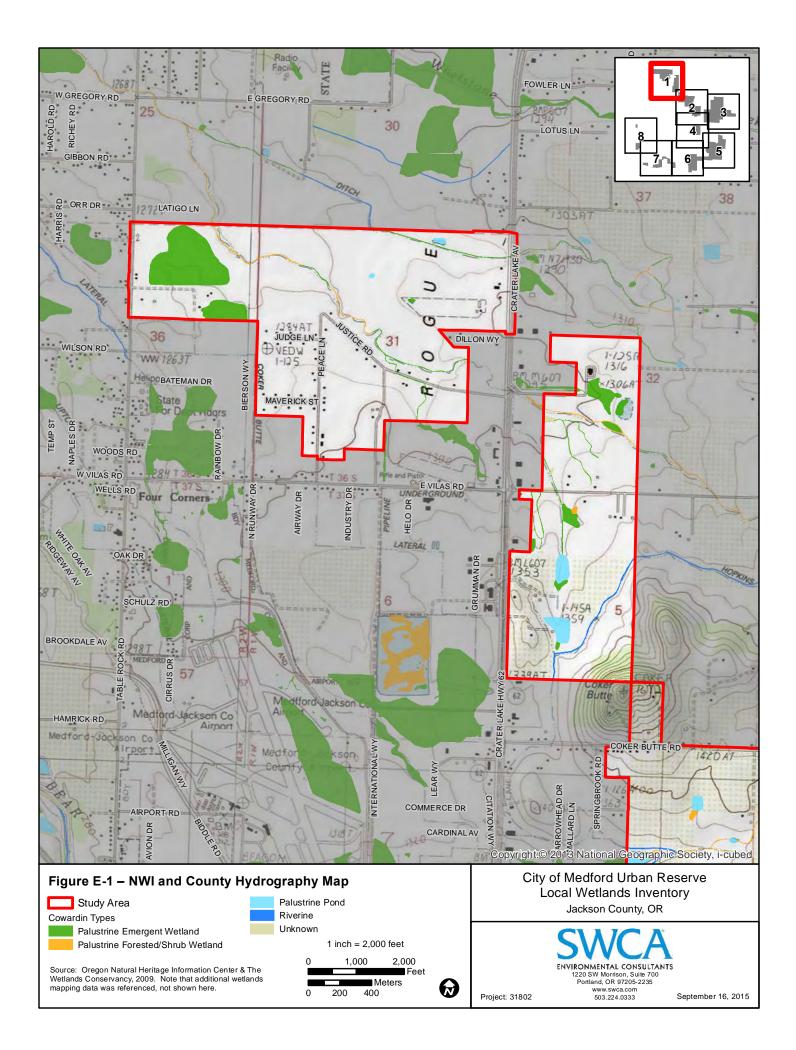
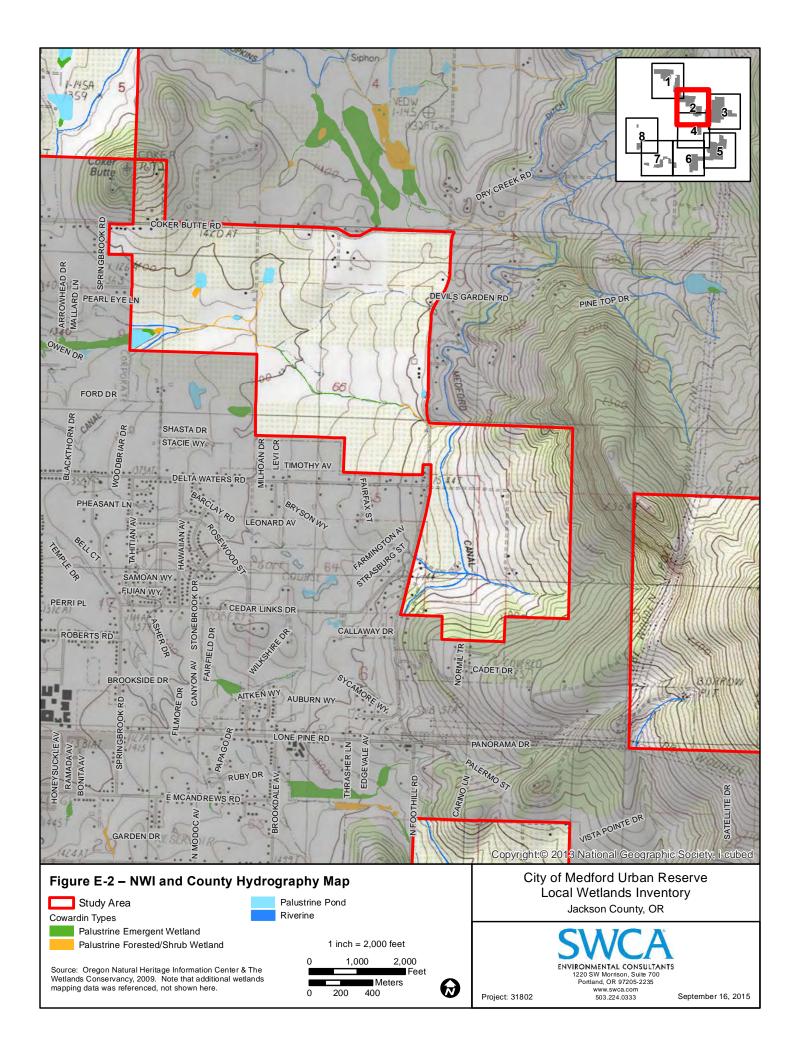
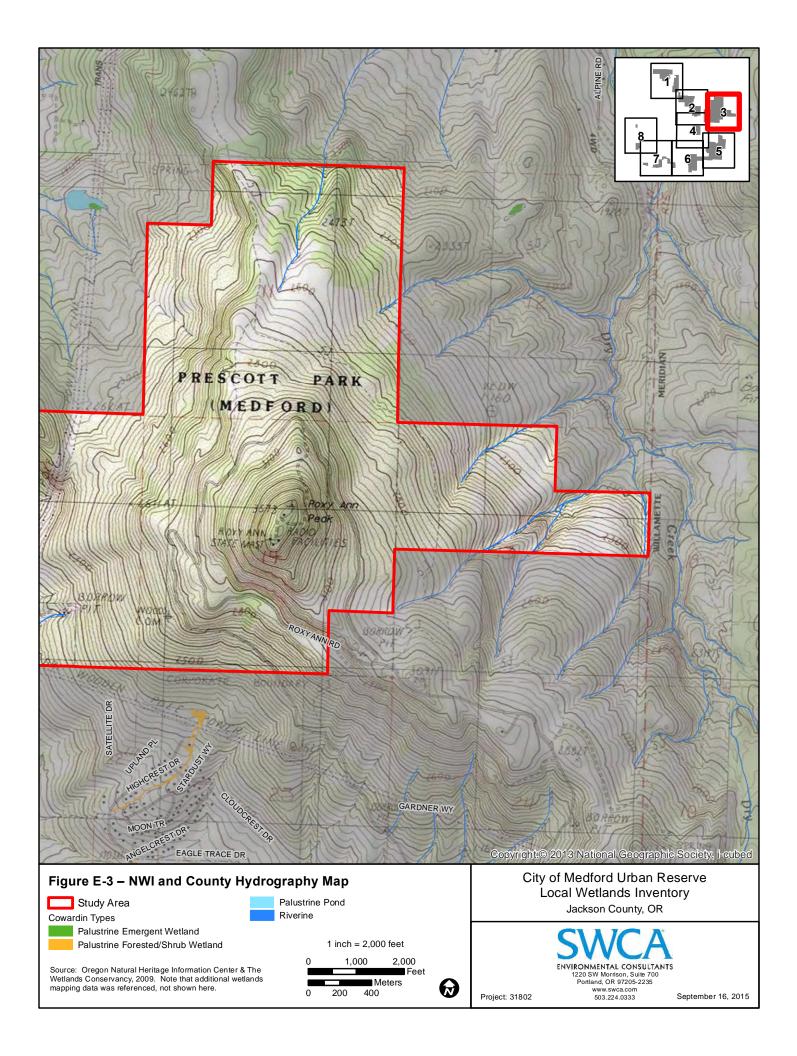
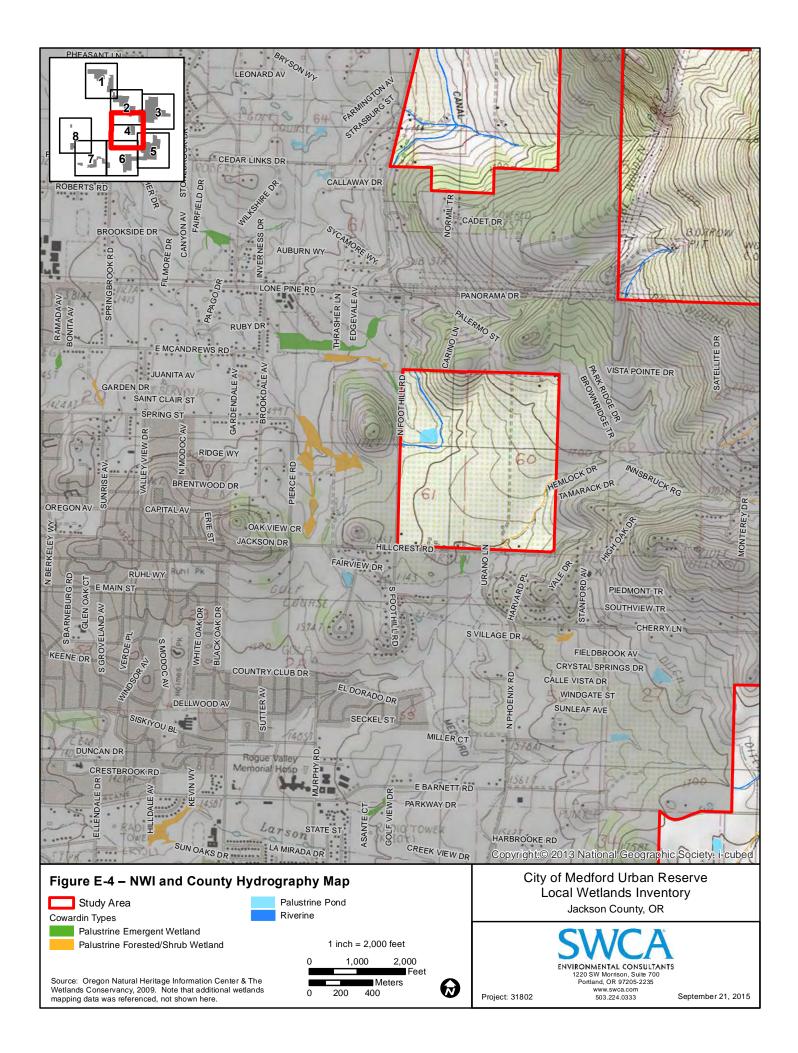


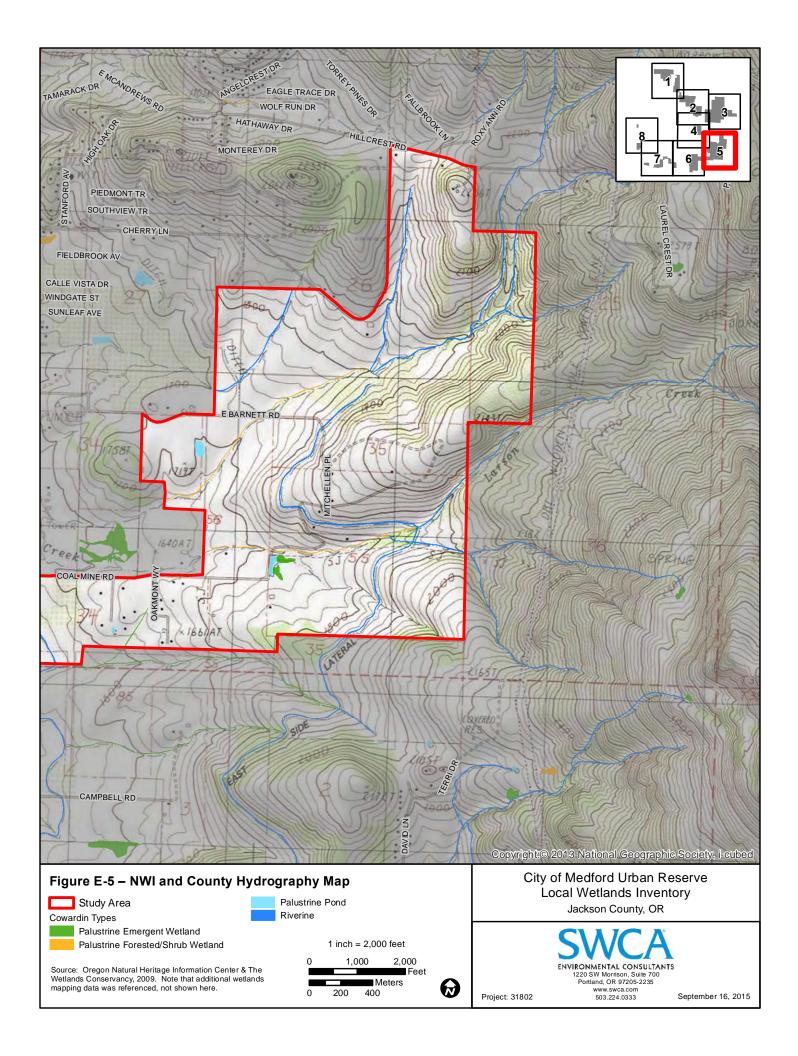
Figure Series E. NWI and Hydrography Maps

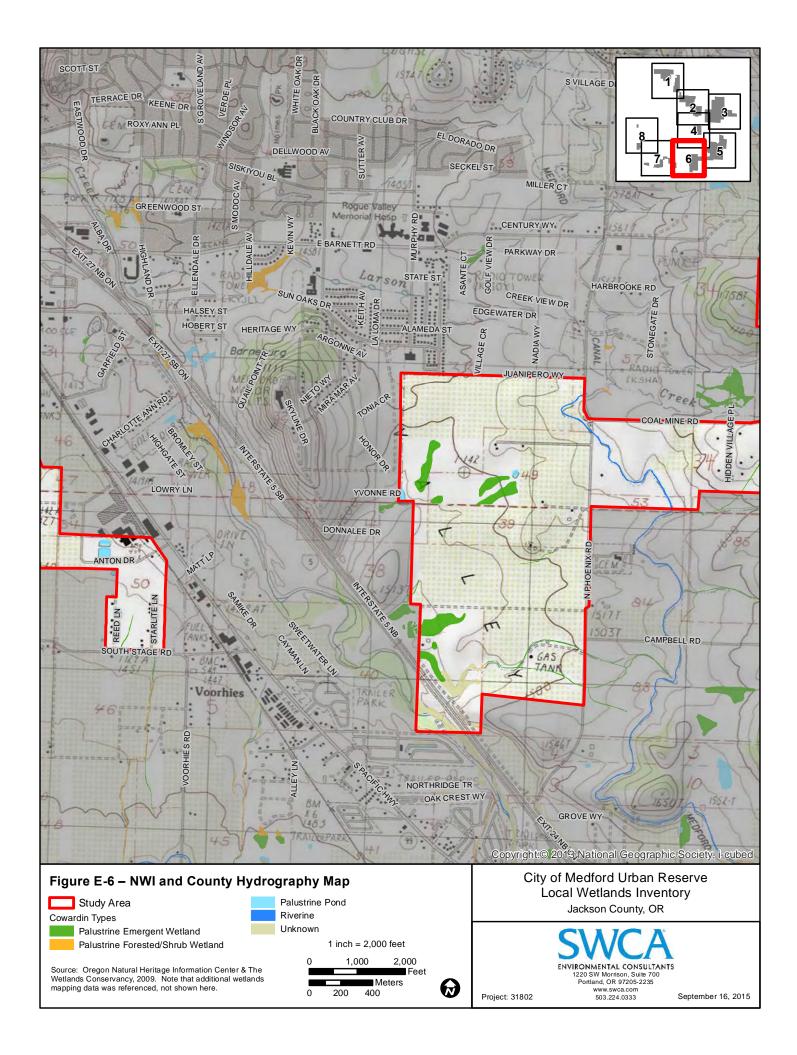


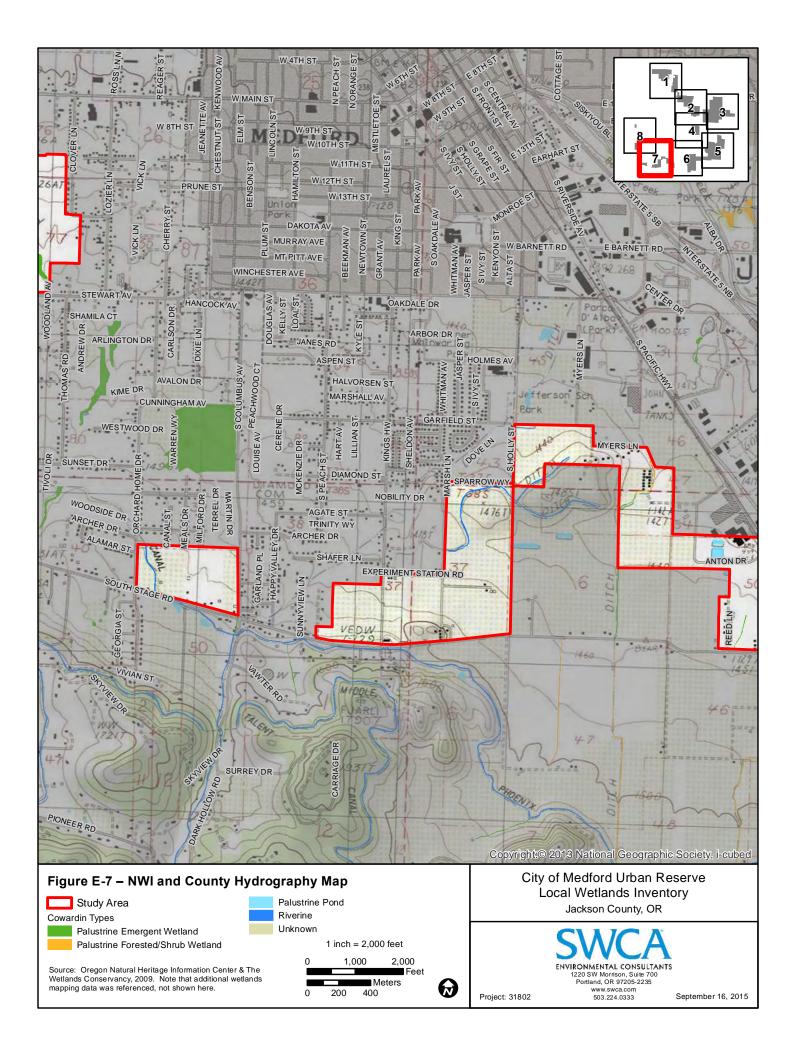












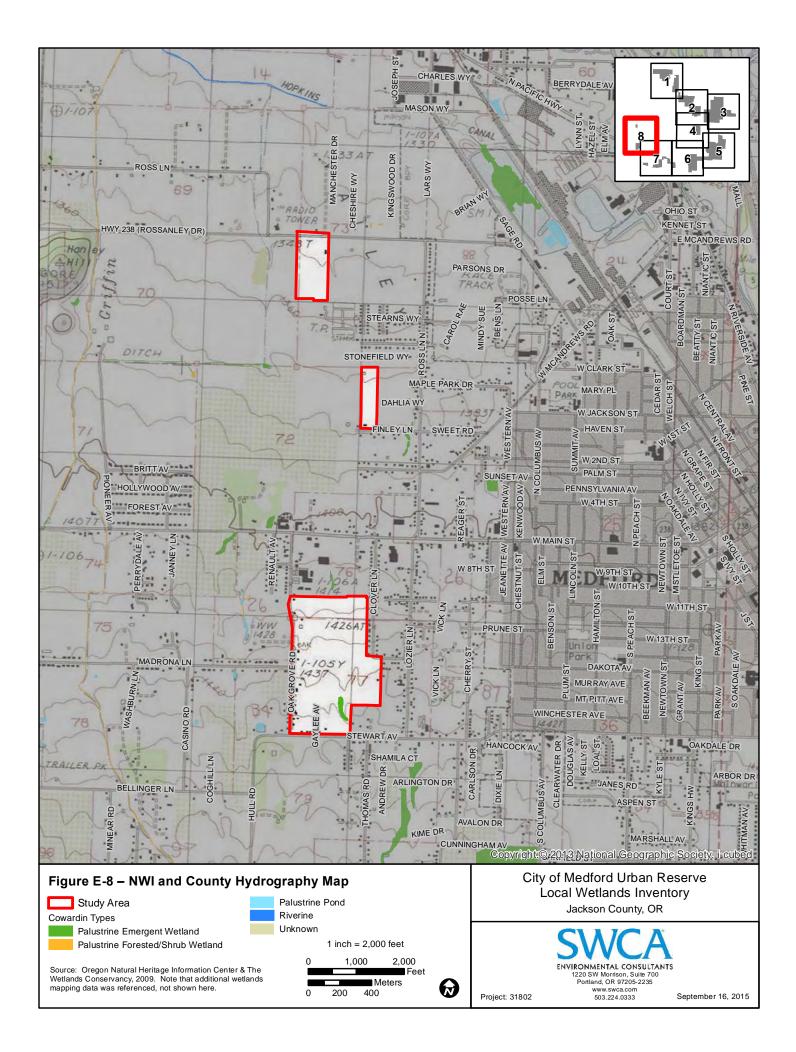


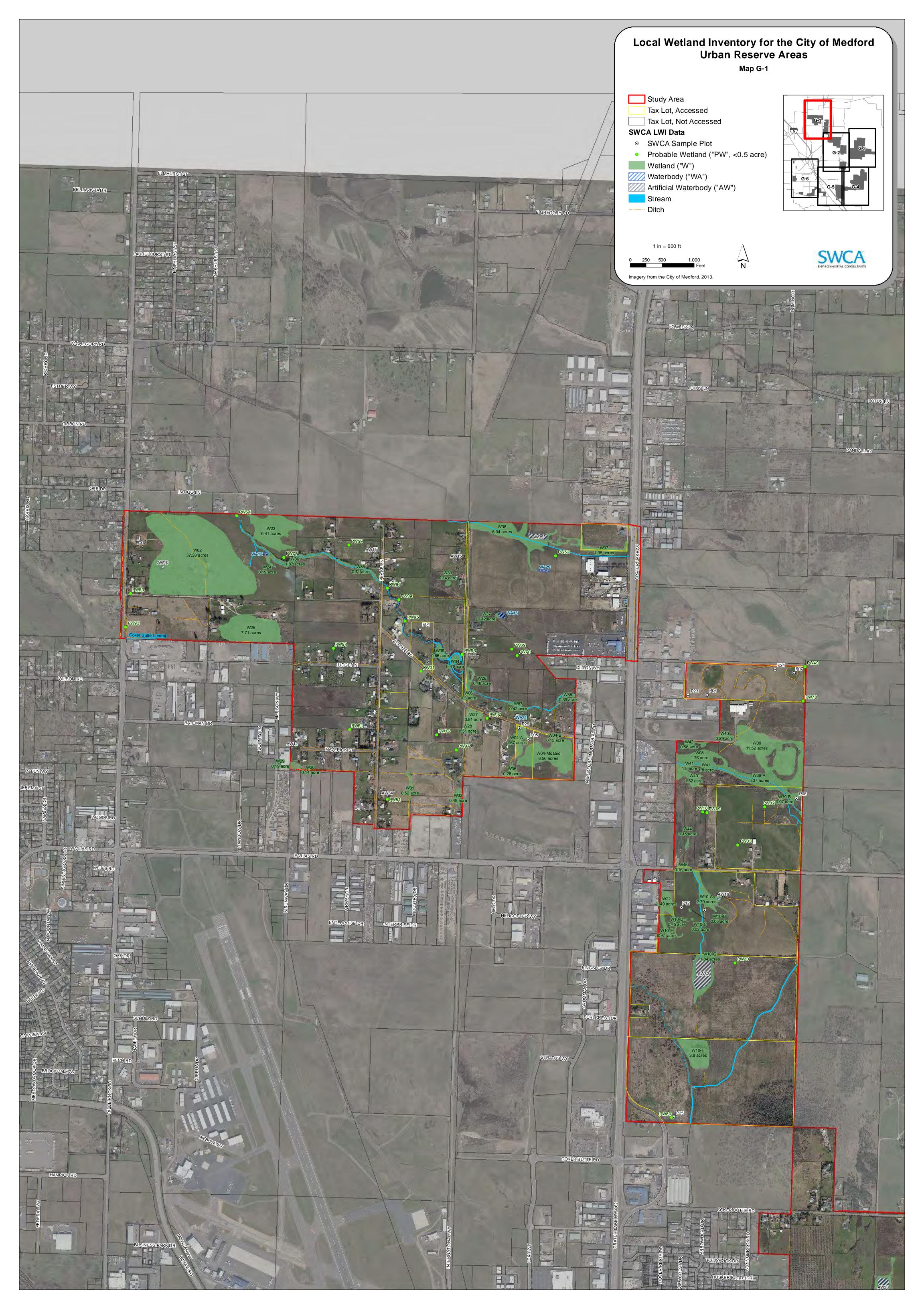
Figure Series F. Index map and Drainage Basin Guide; and LWI Maps

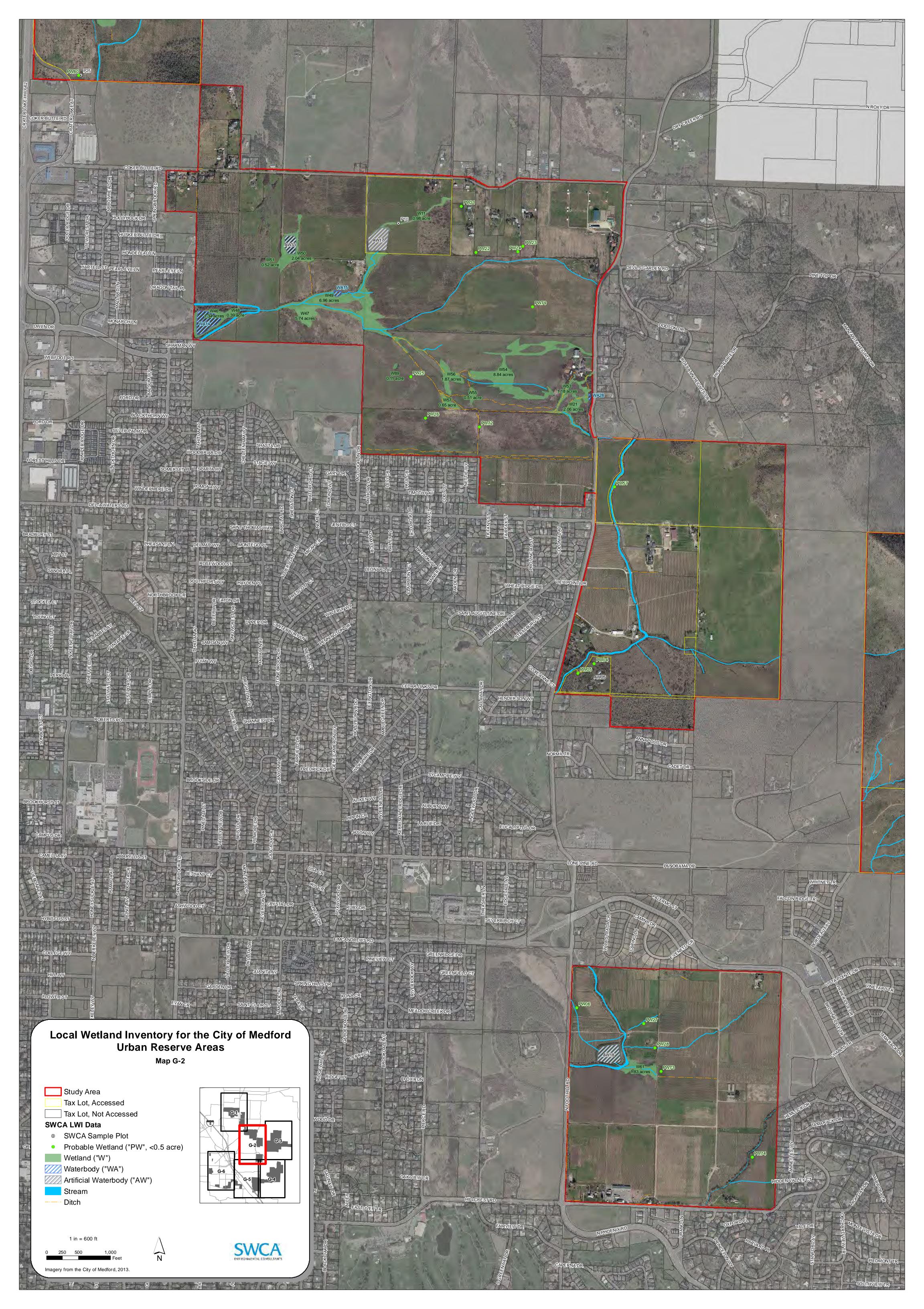
UNDER SEPARATE COVER

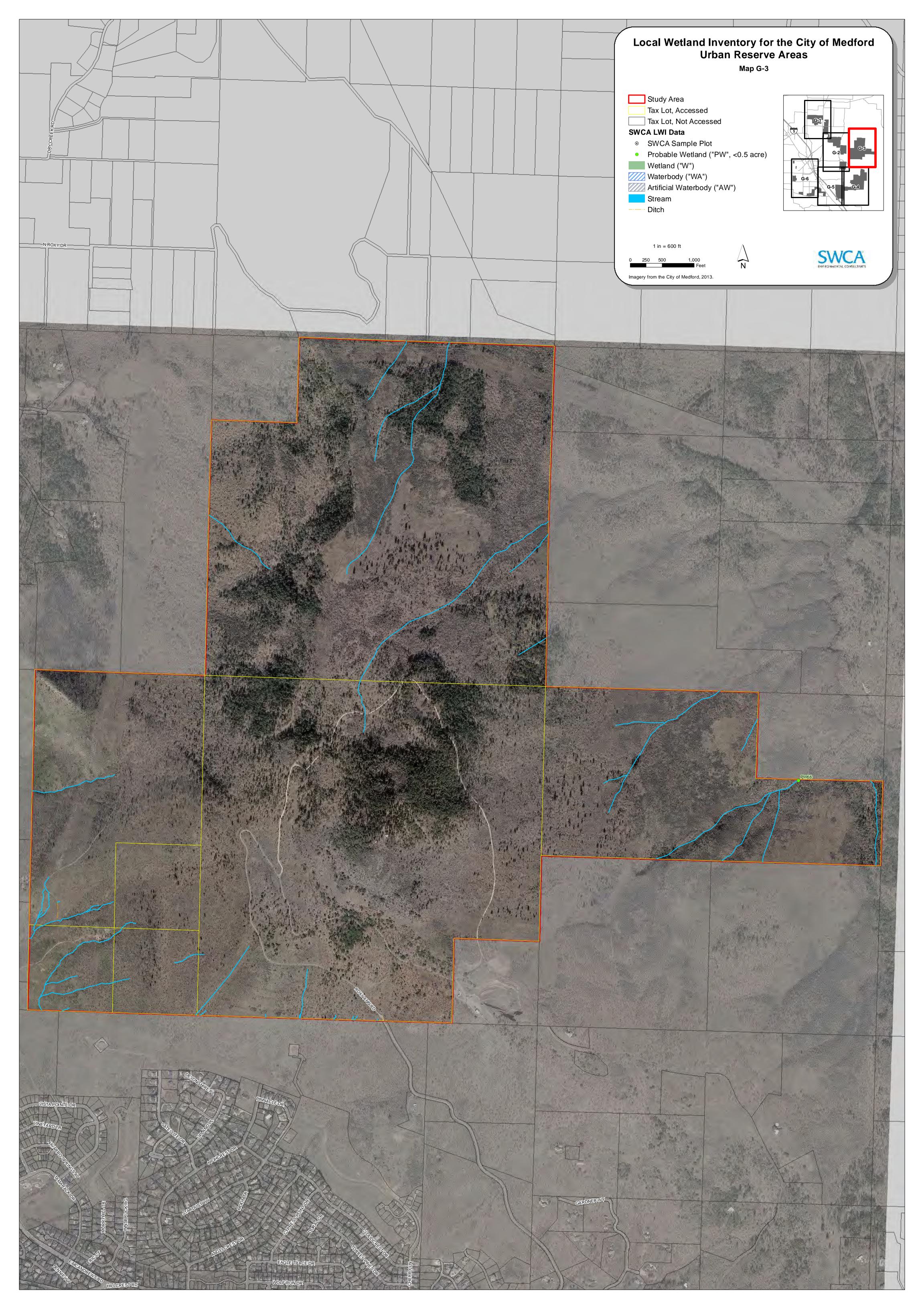
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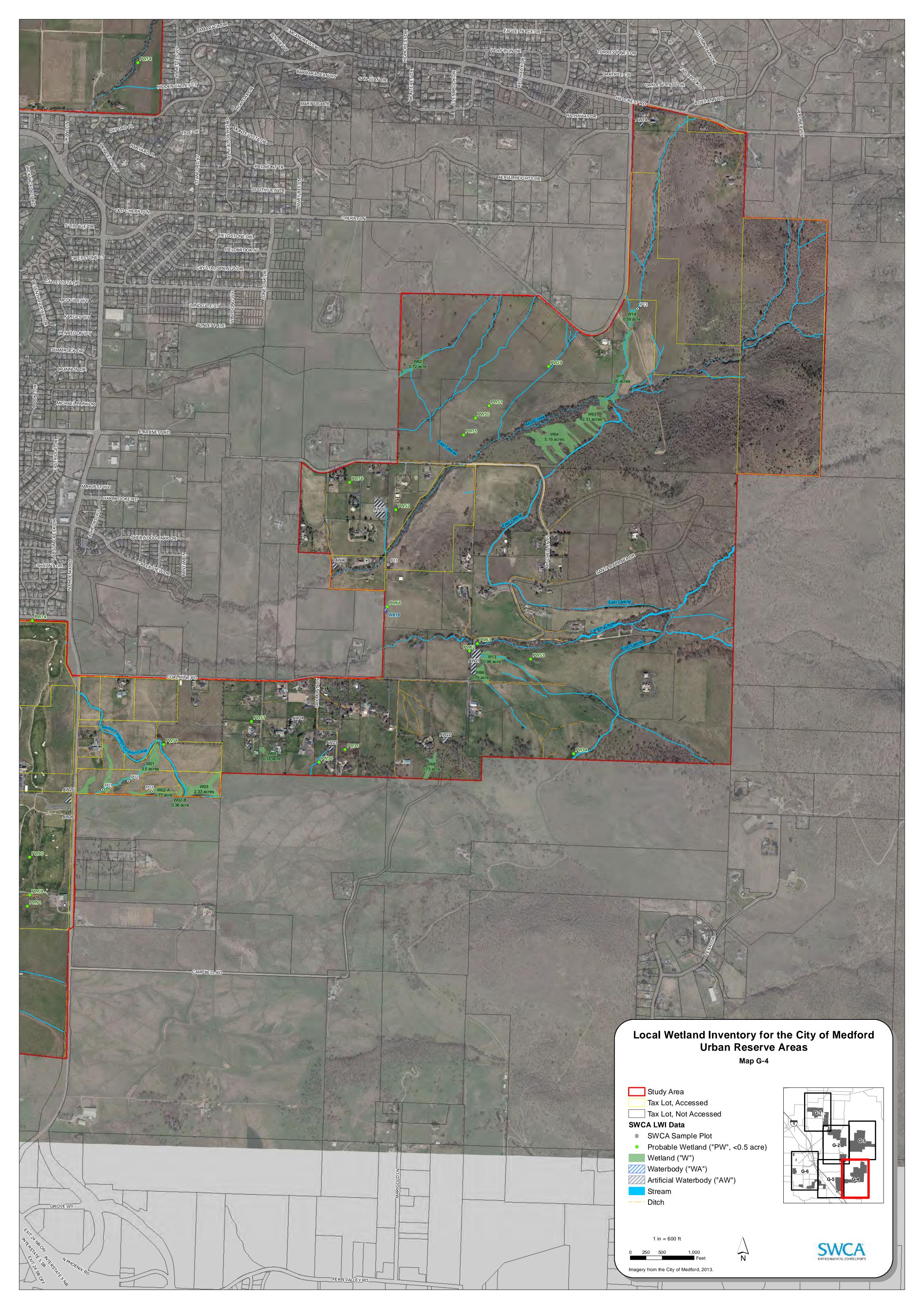
Figure Series G. Poster sized LWI Maps

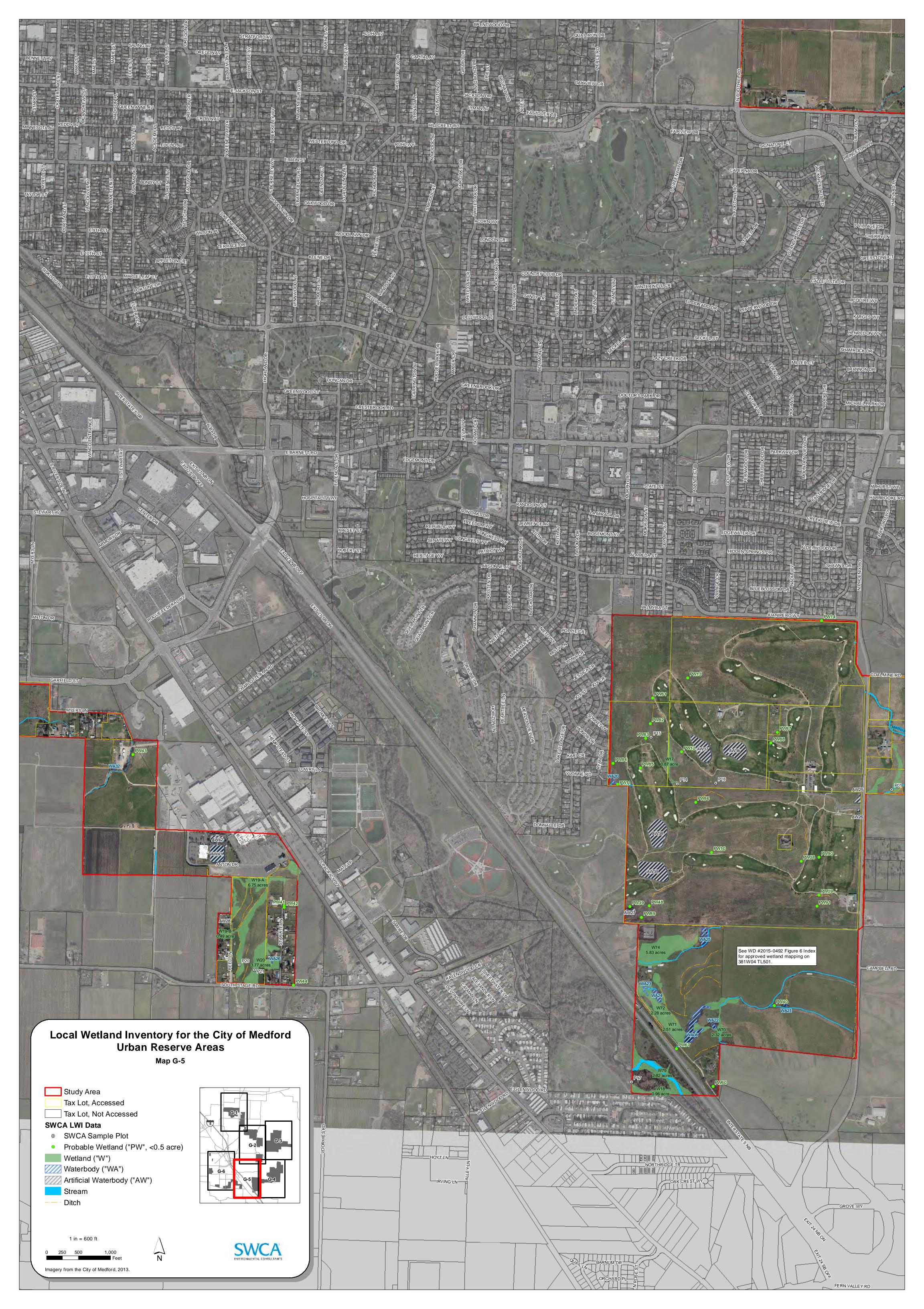
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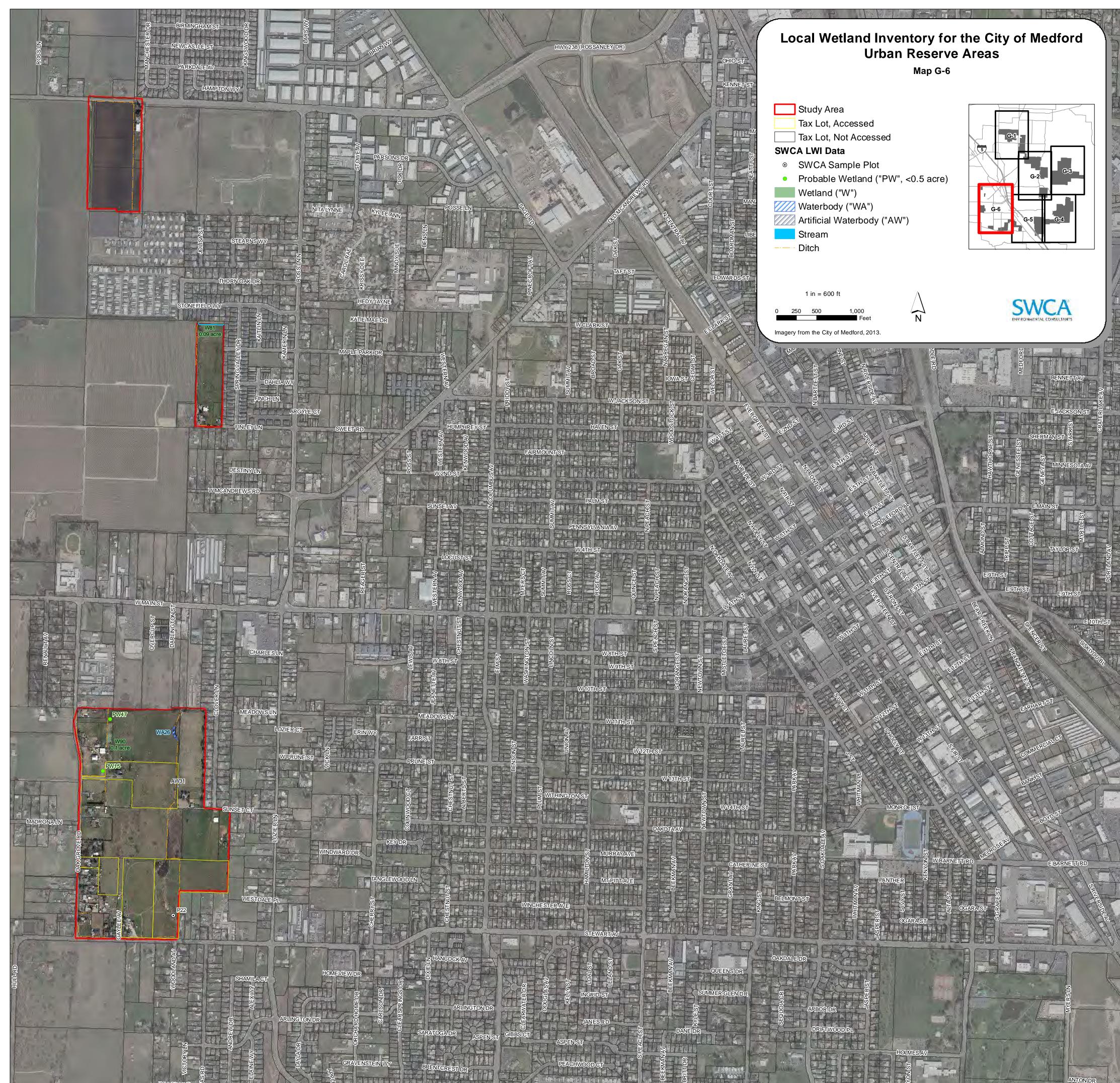




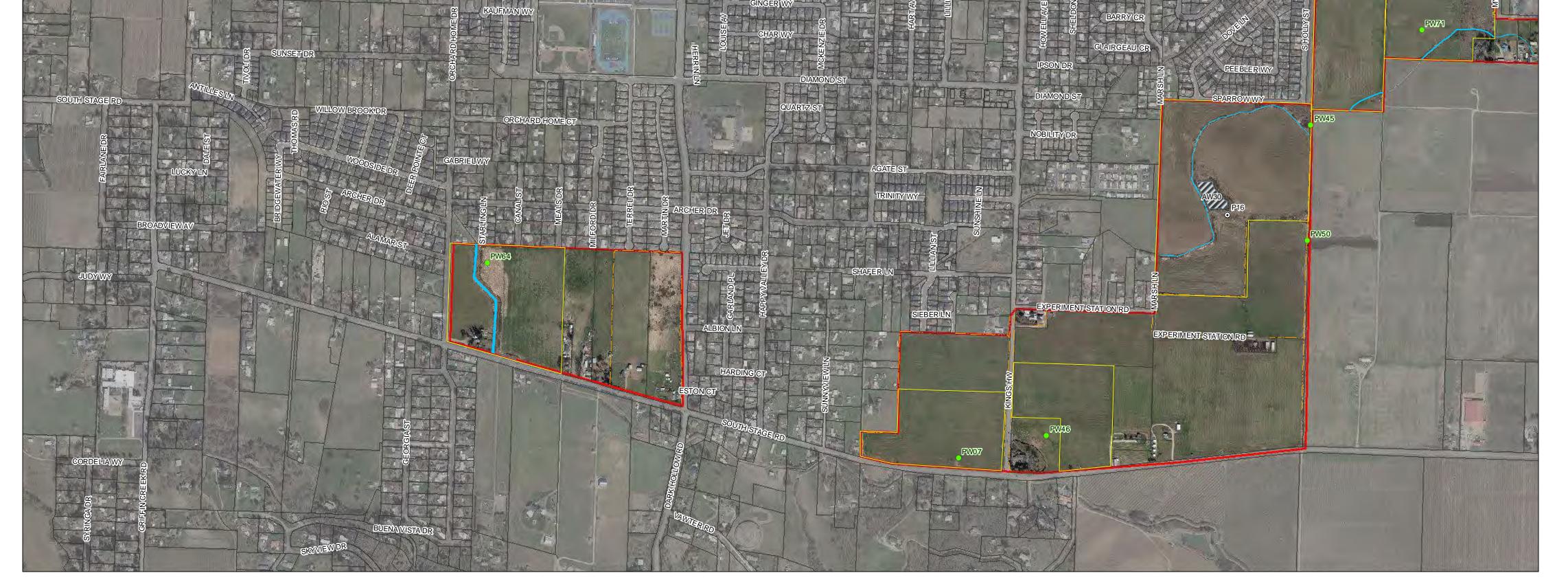








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Appendix G

Staff Qualifications

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C. Mirth Walker, Senior Wetland Scientist, B.A., PWS

Responsibilities: Ms. Walker provided project management and quality assurance/quality control review. She assisted with the fieldwork, data analysis, digitizing, and report preparation.

Ms. Walker has over 25 years of experience conducting wetland delineations and functional assessments, and coordinating agency approvals of state and federal wetland permits. Ms. Walker has received training in the USACE Arid West and Western Mountains, Valleys and Coast Regional Supplements, and the Oregon Rapid Wetland Assessment Method. She has been managing and conducting LWIs for over 20 years, and has both a depth and breadth of wetland inventory experience. Inventory areas she has worked on include the cities of Ashland, Hillsboro, Lakeside, La Grande, Tigard, Tualatin, Stayton, and Wilsonville, as well as five cities for the Lane Council of Governments (LCOG): Adair Village, Harrisburg, Mill City, Monroe, and Scio. Ms. Walker understands wetland permitting and regulations, and she works collaboratively with clients, team members, and agency personnel to resolve issues and provide solutions that are easily attainable.

Clare Kenny, Wetlands Scientist, B.S., PWS

Responsibilities: With support from the project team, Ms. Kenny led the fieldwork effort and designed the LWI geospatial database based on OAR. She completed digitization, the OFWAM assessment, and report preparation. Ms. Kenny also led the public open house meetings for the project.

Ms. Kenny has over 11 years of environmental consulting experience in the United States and overseas, including 6 years of specialization and local trainings in wetland and waterbody assessment and botanical surveys. Continuing education workshops have included a number of regional supplement trainings for the USACE wetland manual, the Oregon Rapid Wetland Assessment Protocol, the Washington Wetland Rating System, the Oregon Stream Duration Assessment Method, National Environmental Policy Act (NEPA), and geographic information system (GIS). Ms. Kenny additionally has expertise with habitat mapping, invasive species surveys, threatened and endangered species surveys, restoration monitoring, and associated reporting. She understands wetland reporting and permit application processes and is proficient using ArcGIS for large-scale data collection and analysis.

Taya MacLean, Botanist/Wetlands Scientist, M.S., B.S.

Responsibilities: Taya assisted with fieldwork, wetland data entry, and wetland data quality assurance/quality control review.

Ms. MacLean has over 15 years of experience conducting botanical studies, habitat mapping, and wetland delineations, and plays an integral role on SWCA's wetland and wetland inventory team. In continuing her education to focus upon Pacific Northwest vegetation and wetland communities, Ms. MacLean regularly attends local botanical workshops and trainings on topics ranging from plant identification and management, to vegetation and habitat mapping, to rapid wetland functional assessment tool trainings. Her on-the-ground experience is diverse and includes the Lower Columbia River Estuary Partnership land cover mapping project and the LCOG Five City LWI. She has conducted vegetation monitoring at vernal pool and wetland mitigation sites for Roseburg Forest Products, the Oregon Parks and Recreation Department, and a variety of other clients throughout southern Oregon.

Catherine Smith, GIS and Mapping Specialist, B.A.

Responsibilities: Catherine built and maintained the LWI geodatabase, sourced reference data, and prepared base and final report maps for the project.

Ms. Smith is a GIS specialist with 21 years of experience in GIS support for NEPA documents, wetland delineations, and vegetation inventory projects. She uses Esri ArcGIS applications to support and help solve natural resource management and planning issues. Ms. Smith has coordinated the GIS involvement for extensive environmental impact statement and environmental assessment projects, including some for the National Park Service, Bureau of Land Management, and U.S. Forest Service. She also has experience with aerial photography/satellite imagery interpretation and classification using ERDAS Imagine software.

Chris Moller, GIS and Remote Sensing Specialist, B.S.

Responsibilities: Provided GIS and remote sensing support to the project team.

Mr. Moller has 15 years of technical experience in GIS and remote sensing as well as natural resources areas. His primary areas of expertise are land cover and land use mapping, wetland interpretation, GPS data collection, and associated GIS analysis. His background in the natural sciences allows him to work with landscape ecologists, botanists, fisheries scientists, restoration scientists, wetland scientists, and cultural resources specialists to gather, analyze, and display data. He also contributes to the development of new methods to answer environmental consulting questions and solve problems. Mr. Moller is familiar with current remote sensing techniques, satellite and aerial imagery manipulation, and accuracy assessment methods. He has used several types of satellite and aerial imagery as well as LiDAR data, and is proficient with different imagery analysis software for interpretation of imagery and classification. He is also practiced in current techniques related to land cover and land use classification as well as change detection.

Appendix H

Example Landowner Letter



CITY OF MEDFORD PLANNING DEPARTMENT

Date of Notice: March 11, 2015

Contact: Carla Paladino

Informational Meeting Medford Local Wetland Inventory Project for Urban Reserve

You are receiving this invitation because you own property within the City of Medford's Urban Reserve and preliminary data indicates the possible presence of wetlands on your property.

> Wednesday, March 18, 2015 5:00 p.m. – 7:00 p.m. (Short Presentation starts at 5:15 p.m.)

Carnegie Building 413 W. Main Street, Top Floor

Scope of Project: The City of Medford is about to conduct a Local Wetland Inventory (LWI) in the Urban Reserve. The City is required by Oregon law (Statewide Planning Goal 5) to identify and assess wetlands in order to update its Comprehensive Plan and meet requirements associated with expanding the City's Urban Growth Boundary. The City is requesting your participation in order to gather the most accurate information possible about the location and quality of wetlands within these areas. From preliminary data, part of your property may have wetland characteristics, contain part of a stream or drainage way, or may be located next to such a feature.

The City has hired SWCA Environmental Consultants, an environmental consulting firm to conduct the Local Wetland Inventory (LWI) and provide the technical expertise for the project. The LWI will provide useful planning information both for property owners and the City.

Why attend? The informational meeting will help explain the LWI project. Staff from the Oregon Department of State Lands (the state agency that sets wetland inventory standards), SWCA Environmental Consultants, and the City will be in attendance. After a brief presentation, staff will be available to answer questions and maps will be on display for the benefit of the audience.

We Need Your Help! The City is requesting your participation in order to gather the most accurate information possible about the location and quality of wetlands within the Medford Urban Reserve. While aerial photography, soil maps, and other information will also be used in this study to locate and map wetlands, for the best accuracy we would like your permission for SWCA to walk on the property and briefly study the vegetation and soils. The consultant will not come onto your property without your consent. Therefore, we request that you please sign the "Permission to Access" form and mail it back by March 25th. Otherwise, please bring the signed sheet with you to the informational meeting.

If you consent, the site visit will occur between the end of March through the end of April of this year. It would take place on a weekday and in most cases would not last longer than 30 minutes. When the consultant visits your property, he/she may dig a few small test holes (1 ft. wide by 1.5 ft. deep) to help identify wetland soils. The consultant will fill these holes back in when finished. No gardens or lawns will be disturbed. Although your presence is not necessary, SWCA will be flexible in working with you on any special arrangements that you may require in order to accommodate schedules, pets/animals etcetera.

Who do I contact? Questions can be directed to the contact listed above at 541-774-2380, or by visiting the Planning Department in person. The Planning Department is on the second floor of the Lausmann Annex, 200 S. Ivy Street and is open from 8 a.m. to 5 p.m. weekdays.

Sincerely,

signed

James E. Huber, AICP, Planning Director City of Medford

Enclosure: Permission to Access form

Permission to Access

Property Owner Consent Form

I understand that SWCA Environmental Consultants, an environmental consulting firm, has been contracted by the City of Medford to conduct a Local Wetland Inventory (LWI). In order to accurately determine the presence or location of a wetland, staff from SWCA needs to enter onto my property. By signing this form, I grant the consultant permission to access my property for the purposes of this inventory.

Map and Tax Lot(s):				
Street Address:				
Print Name:				
Signed:	Date:			
Should the consultant call first to make any special arrangements for access?				

No		
Yes	Phone:	Best time to call

Please return this form by March 25th or bring it with you to the informational meeting.

Thank you.

Appendix I

Addenda

Addendum 1:

Approval Letter WD #2015-0429 for Tax Map 381W04 Tax Lot 501



Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

State Land Board

Kate Brown Governor

Jeanne P. Atkins Secretary of State

> Ted Wheeler State Treasurer

May 16, 2016

Bear Creek Orchards, Inc. Attn: Tom Forsythe P.O. Box 9000 Medford, OR 97501

Re: WD #2015-0492 Wetland Delineation Report for Bear Creek Orchards, Jackson County; T 38S R 1W S 4 TL 501

Dear Mr. Forsythe:

The Department of State Lands has reviewed the wetland delineation report prepared by Schott & Associates, Inc. for the site referenced above. Based upon the information presented in the report and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 6 (index + 9 sheets) of the report. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Within the study area, four wetlands, three wetland ditches (Ditches 1-3), and a wetland pond (totaling approximately 2.364 acres), one non-wetland ditch (Ditch 4), and one irrigation ditch (Ditch 5) were identified. The wetlands, Ditches 1-4, and the wetland pond are subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in the wetlands or below the ordinary high water line (OHWL) of a waterway or pond (or the 2 year recurrence interval flood elevation if OHWL cannot be determined). Ditch 5 is exempt from state regulation per OAR 141-085-0515(9).

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you

work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5300 if you have any questions.

Sincerely,

Lynne McAllister Jurisdiction Coordinator

Approved b

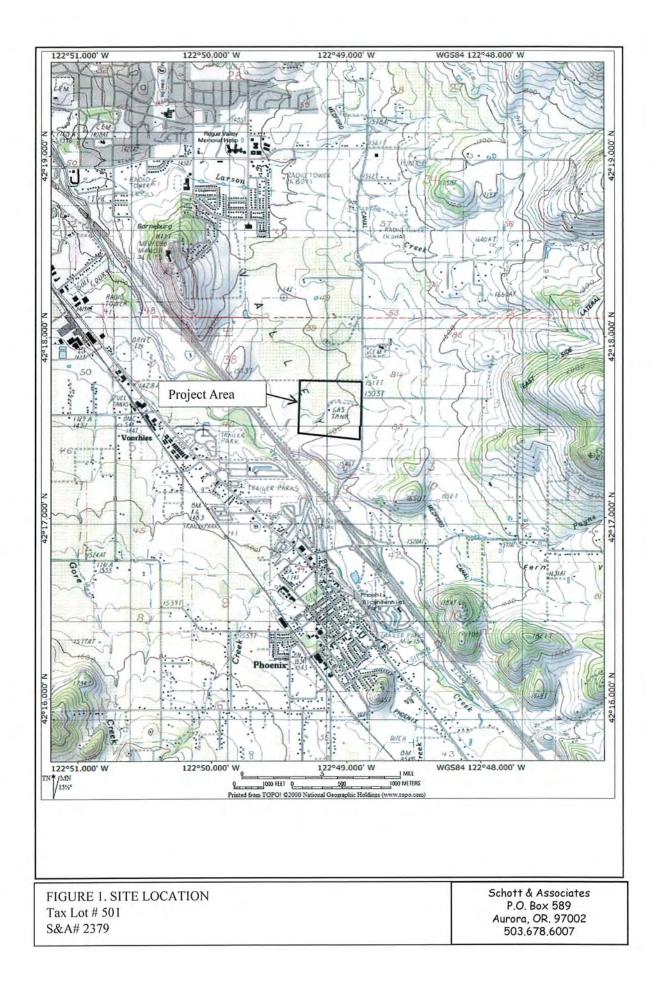
Kathy Verble, CPSS Aquatic Resource Specialist

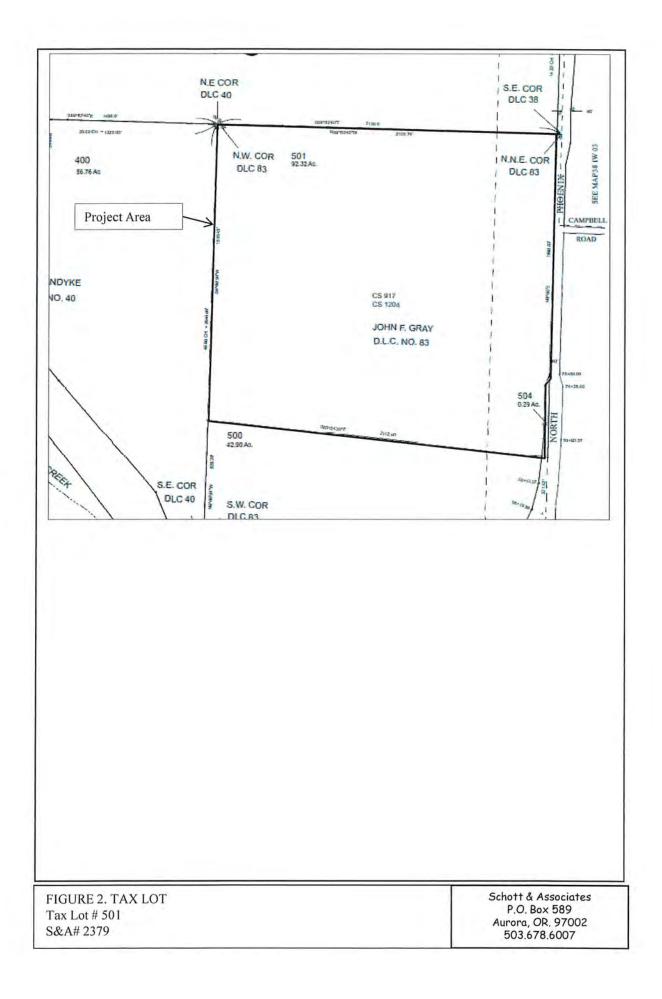
Enclosures

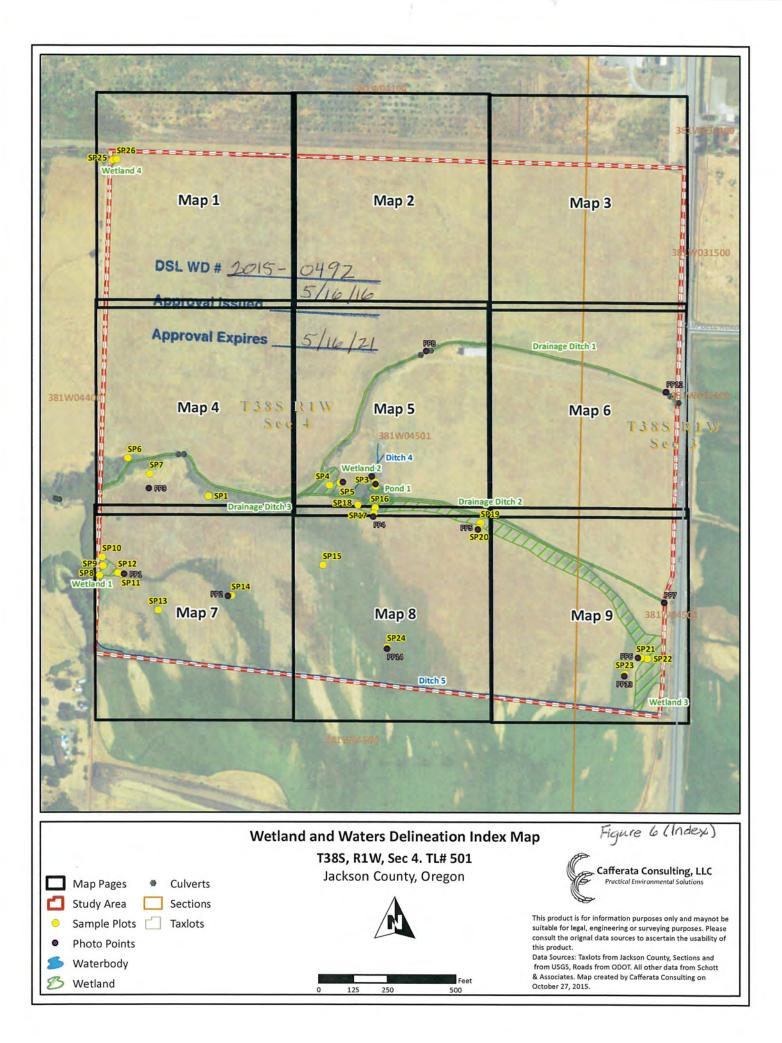
ec: Jodi Reed, Schott & Associates, Inc. Jackson County Planning Department Medford Planning Department Benny Dean, Corps of Engineers Bob Lobdell, DSL

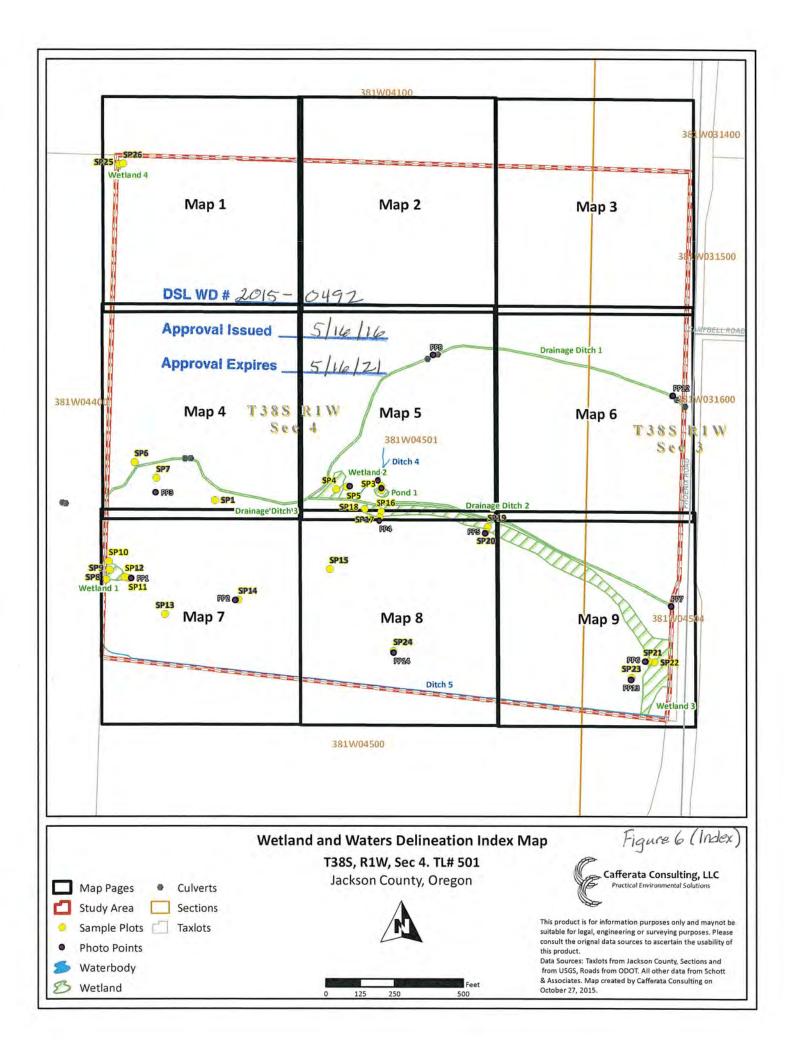
WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

are submitted. Attach this form to the front of an unbound report includes a single PDF file of the report cover form and report (mir State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97 and report may be e-mailed to Wetland_Delineation@dsl.state. instructions on how to access the file from your ftp or other file sh check payable to the Oregon Department of State Lands. To pay	aring website. Eges can be paid by aback or anality and the start			
Applicant Owner Name, Firm and Address:	Business phone # 541 864 2480			
Bear Creek Orchards, Inc. Attn: Tom Forsythe	Mobile phone # (optional)			
PO Box 9000	E-mail: TForsythe@HarryandDavid.com			
Medford, OR 97501				
Authorized Legal Agent, Name and Address:				
Schott & Associates, Inc. Attn: Jodi Reed	Business phone # 503-678-6007			
PO Box 589	Mobile phone #			
Aurora, Oregon 97002	E-mail: Jodi@Schottandassociates.com			
I either own the property described below or I have legal authority property for the purpose of confirming the information in the report Typed/Printed Name:	Signature:			
Project Name: Tax Lot 501	for lat/long.,enter centroid of site or start & end points of linear project) Latitude: 42.2927 Longitude: -122.8189			
Proposed Use: Development	Latitude: 42.2927 Longitude: -122.8189 Tax Map # 38 1W 04			
	Tax Map # 36 TVV 04			
Project Street Address (or other descriptive location):	Township 38S Range 1W Section 4 QQ			
Northeast of 1-5, west of North Phoenix Road, south of	Tax Lot(s) 501			
Centennial Golf Club	Waterway: River Mile:			
City: Medford County: Jackson	NWI Quad(s):			
Wetland Delin	leation Information			
Wetland Consultant Name, Firm and Address: Phone # 503-678-6007 Schott & Associates, Inc. Attn: Jodi Reed Mobile phone # P0 Box 589 E-mail: Jodi@schottandassociates.com Aurora, Oregon 97002 Program				
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Consultant Signature: $\mu q l = \frac{1}{2}$				
Primary Contact for report review and site access is X Co	onsultant Applicant/Owner Authorized Agent			
Wetland/Waters Present? Xes No Study Area				
Check Box Below if Applicable:	Fees: +0.569(ditche			
R-F permit application submitted	Fee payment submitted \$ 406.00			
Mitigation bank site Fee (\$100) for resubmittal of rejected report Fee (\$100) for resubmittal of rejected report				
Wetland restoration/enhancement project (not mitigation)				
Industrial Land Certification Program Site	IKIE(CIEII VIEII))			
Reissuance of a recently expired delineation				
Previous DSL # Expiration date	NOV 1.0 2015			
Other Information:	Y N			
Has previous delineation/application been made on parcel?				
Does LWI, if any, show wetland or waters on parcel?				
For Office Use Only				
DSL Reviewer: Fee Paid Date:/// DSL WD #/5-0492				
Date Delineation Received://// DSL Pro	· · · · · · · · · · · · · · · · · · ·			
Scanned: 🚽 Final Scan: 🗆 DSL WN	I# DSL App. #			









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T385 R1W Sec 4 T38S RIW н Sec 3 Н h H DSL WD # 2015-0492 Approval Issued 5/16/16 Approval Expires 5/16/21 Figure 6-3 27 Study Area Wetland and Waters Delineation Map Sample Plots T38S, R1W, Sec 4. TL# 501 Cafferata Consulting, LLC Practical Environmental Solutions Photo Points 0 Jackson County, Oregon 2 3 Waterbody 53 Wetland 4 5 6 This product is for information purposes only and maynot be Feature Continues Offsite suitable for legal, engineering or surveying purposes. Please consult the orignal data sources to ascertain the usability of • Culverts this product. 7 8 9 Data Sources: Taxlots from Jackson County, Sections and from USGS, Roads from ODOT. All other data from Schott & Associates. Map created by Cafferata Consulting on Sections Feet Fill Area October 27, 2015. 100

