LOCAL WETLANDS INVENTORY

City of Prineville
Crook County, Oregon

Prepared for:

City of Prineville
City Hall, 400 East Third Street
Prineville, Oregon
97754

November 30, 1994

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PRNX0019

PREFACE

This report has been prepared by David Evans and Associates, Inc. (DEA) for the City of Prineville, and reviewing agency representatives. In preparing this report, DEA has used the site information and proposed development plans referenced herein. Findings reported herein are based on information gathered in the field at the time of investigation, DEA's understanding of the Local Wetlands Inventory: Guidance for Consultants and Local Governments (Morlan, 1993), the US Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987), The Oregon Freshwater Assessment Methodology (Roth et. al., 1993), and DEA's understanding of federal, state, and local regulations governing wetlands.

The wetland boundaries and classifications described in this document represent DEA's best professional opinion based on the circumstances and site conditions at the time of the study. Final acceptances of wetland determinations are made by the appropriate federal, state, and local jurisdictions.

EXECUTIVE SUMMARY

A Local Wetlands Inventory (LWI) was conducted by David Evans and Associates, Inc., on July 19, 20, 21, August 31, September 1, 2, and 14, 1994, for the City of Prineville (City) on approximately 9.0 square miles of land in and around the City (Figure 1). The investigation included all areas within the present and proposed expansion of the Urban Growth Boundary (UGB). The purpose of the LWI is to determine the presence, location, and size of all federal and state jurisdictional wetlands greater than 0.5 acres in size that lie within the present UGB and proposed extension.

Data compiled from the investigative plots were analyzed and resulted in the identification of 15 wetlands within the study area (Figure 1). Total area of wetlands is estimated at 207.43 acres. The wetland determinations were based on the presence of dominant hydrophytic vegetation, hydric soil indicators, and evidence of positive wetland hydrology. Wetlands ranged from small floodplain bench wetlands immediately adjacent to Ochoco Creek and the Crooked River, to long and broad complex wetlands located in large drainages.

The wetlands would be classified by the US Fish and Wildlife Service as one or more of the following: palustrine, emergent, seasonally flooded or saturated; palustrine, scrub-shrub, seasonally flooded or saturated; and palustrine, open water. No palustrine forested wetlands were identified in the study area.

Wetland values and functions were assessed using methods described in the *Oregon Freshwater Wetlands Assessment Methodology* (Roth et. al., 1993). Wetlands are evaluated for their wildlife and fish habitat values, water quality and hydrologic control values, sensitivity to impact, enhancement potential, educational and recreational values, and aesthetic quality. In general, wetlands rated highest for providing water quality benefits and hydrologic support. These are either large wetlands or are located in industrial areas or adjacent to the Crooked River or Ochoco Creek. Wetlands with direct contact with either the Crooked River or Ochoco Creek may be of special interest for protection due to the presence of red-band trout (*Oncorrhynchus mykiss*).

The wetland determination was conducted using the methods described in the *Corps of Engineers Wetland Delineation Manual* developed by the US Army Corps of Engineers Environmental Laboratory (1987). This method, currently being used by the US Army Corps of Engineers (ACOE), the Oregon Division of State Lands (DSL), and the USDA Soil Conservation Service, requires the simultaneous presence of hydrophytic vegetation, hydric soils, and wetland hydrology in wetland determinations.

Federal, state and local regulations control activities in and near wetlands. Therefore, the LWI was undertaken to determine the location and extent of wetlands within the present and proposed extension of the UGB. Regulatory agencies having jurisdiction over development

impacts associated with on-site wetlands include the City, DSL, and the ACOE. Wetland boundaries determined by DEA are subject to verification and approval by these agencies.

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INTRODUCTION

A Local Wetlands Inventory (LWI) was performed for the City of Prineville (City) by David Evans and Associates, Inc. (DEA) on approximately 9,886 acres of land in and around the City. Performance of the inventory was conducted on all ground within the present Urban Growth Boundary (UGB) and within the proposed expansion of said boundary. The determination findings presented in this report will assist the City in its planning efforts to comply with Goal 5 by identifying and locating federal- and state-regulated wetlands.

SITE DESCRIPTION

The City lies between the Cascade and Ochoco Mountains near the edge of the Blue Mountain and High Lava Plains physiographic provinces of Central Oregon. The area is drained by the Crooked River and its tributary, Ochoco Creek. Climate in the area is semi-arid, though winter is cold and moist. Annual precipitation is about nine inches. Rangelands surround the area, dominated by western juniper (*Juniperus occidentalis*), sagebrush (*Artemisia sp.*), and rabbit-brush (*Chrysothamnus sp.*). Pastures inside the study area are grazed and cropped. A narrow fringe of riparian vegetation remains intact along portions of the Crooked River and Ochoco Creek. Two large drainages, generally trending southwest, pass through the study area. The first drainage, is just west of Barnes Butte and is identified in this report as Barnes Butte Drainage. The second drainage, west of Barnes Butte Drainage, has a north and east fork and is identified in this report as the Ryegrass Drainage. Both drainages have been modified by construction of dams creating a series of reservoirs.

PURPOSE

The City and the surrounding urban area are currently in the process of Periodic Review, as mandated by the Department of Land Conservation and Development (DLCD). One of the components emphasized in the planning process is meeting the requirements necessary to comply with Statewide Planning Goal 5 and relevant State and Federal regulations. A key element is the completion of a LWI.

The purpose of the LWI is to determine the presence, location, and size of all state jurisdictional wetlands greater than 0.5 acres that lie within the present UGB and proposed expansion of it. Once accepted by the Oregon Division of State Lands (DSL), the LWI shall be used in place of the National Wetlands Inventory (NWI) and is incorporated into the State-wide Wetlands Inventory (SWI). Because a function and value assessment is included, this LWI fulfills the location, quantity, and quality information required for Goal 5 analysis.

METHODS

PRELIMINARY RESOURCES REVIEW

Reference information was reviewed to provide initial site information regarding wetland occurrence, presence of streams or creeks, vegetation, soils, and hydrology. The sources included:

National Wetlands Inventory (NWI), US Department of Interior, Fish and Wildlife Service (USFWS), 1981, and

Soil Survey, Prineville Area , Oregon, US Department of Agriculture, Soil Conservation Service (SCS), 1966

A review of preliminary resource materials including NWI maps (Appendix A) for identification of possible wetlands, and SCS Soil Survey Data (Appendix B) for location of possible hydric soils, was conducted prior to the field work.

FIELD METHODS

In performing the field work, the objective was to identify the extent and location of wetlands greater than 0.5 acres occurring in the project area and to characterize their nature. Wetland areas were identified according to methods described in the *US Army Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987). This manual is currently required by the US Army Corps of Engineers (ACOE), the Oregon Division of State Lands (DSL), and SCS. This method requires an area to possess a prevalence of hydrophytic vegetation, hydric soils, and wetland hydrology. Positive indicators of each of these three parameters must be present for an area to satisfy the criteria for jurisdictional wetlands.

Hydrology

Water is the critical, driving factor in wetland formation. For the purpose of delineating wetlands, an area is considered to possess wetland hydrology when the soil is saturated to the surface for more than 12.5 percent of the growing season. Areas saturated to the surface between 5 and 12.5 percent of the growing season are sometimes wetlands and sometimes uplands. Areas saturated to the surface for less than 5 percent of the growing season are not wetlands. The growing season is defined as the number of days between the last killing frost in the spring and the first killing frost in the fall, during an average year. For the subject area, that period has been defined as from May 16 to September 27, a 134-day growing season (SCS, 1964). Saturation to the surface must therefore occur for a minimum of seven

consecutive days during the growing season for wetland hydrology to occur. Saturation to the surface for 17 consecutive days is a more definite indication of wetland hydrology.

Data on hydrology is best collected during the early growing season when primary field indicators can be used. Field indicators are divided into two categories: primary and secondary. Primary indicators include visual observation of inundation or saturation within 30.5 cm (12 inches) of the surface, water marks on woody vegetation or other fixed objects (e.g., fence posts), drift lines, sediment deposits, and drainage patterns. Secondary field indicators include the presence of oxidized rhizospheres (rust coloration around living roots), water-stained vegetation, morphological plant adaptations, and local soil survey data. At each sample plot the surrounding area was examined for the presence of these primary and secondary indicators of wetland hydrology. Field work was conducted in July, August, and September so the presence or absence of secondary indicators was key to understanding wetland hydrology.

Soils

The site was examined for the presence of hydric soils. These are soils which are saturated, flooded, or ponded long enough (usually a week or more) during the growing season to develop anaerobic conditions in the upper part (Environmental Laboratory, 1987). Typical field indicators of hydric conditions include; organic soils, thick organic layers (histic epipidons), gleying (gray soil colors), and low soil chromas (intensity of the soil hue) with or without redoximorphic features (mottles). Low soil chroma and mottles are indicators of reduced soil conditions caused by anaerobic, wet environments. Mottles indicate a fluctuating water table. Soils in the study area have not been mapped by the SCS so soil series names do not appear on either local SCS hydric soils lists or the National Technical Committee for Hydric Soils (NTCHS) list of hydric soil series.

Soil plots were dug to a depth of 18 inches at each sample location. Soil was analyzed for color using the Munsell Soil Color Chart (Munsell Color, 1990). Soil color is based on hue, value, and chroma. A soil color denoted by "10YR 3/2" has a hue of 10 yellow-red, a value of 3, and a chroma of 2. Prescribed methods require a colormetric determination immediately below the "A" horizon, or ten inches, whichever is less.

Vegetation

The USFWS has classified vegetation according to its frequency of occurrence in wetlands (Reed, 1988). Plant species have been given wetland indicator status of either obligate wetland (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL) based on their probabilities for occurring in wetlands. Table 1 provides definitions of plant indicators used to determine wetland status.

Table 1
Plant Indicators Used to Determine Wetland Status

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

Source: Reed, 1988.

The *National List of Plant Species That Occur in Wetlands: Northwest (Region 9)* (Reed, 1988) uses a plus (+) sign or a minus (-) sign to specify a more hydrophytic or less hydrophytic portion of a particular wetland indicator frequency for the three facultative types of indicators. Under normal circumstances, an area is considered to have hydrophytic vegetation when more than 50 percent of the dominant species, from all plant strata, are classified as either OBL, FACW, or FAC, excluding FAC-. In accordance with the methods, 0.01-acre vegetation plots were established in areas of typical homogeneous vegetation, and all plant species observed were identified (Hitchcock and Cronquist, 1973; Reed, 1988). Percent cover of all plant species was estimated. Dominant species are those species in each stratum that, when ranked in descending order of estimated percent areal coverage and cumulatively totaled, immediately exceed 50 percent of the total coverage. Additionally, any species comprising at least 20 percent of the total coverage for their respective stratum was also considered dominant.

Data forms were completed for typical wetland and upland associations observed at each plot location. These data forms are included as Appendix C. Areas in which wetland hydrology, hydric soils, and hydrophytic vegetation were all simultaneously present were considered wetland. Cowardin et al. (1979) provided the methods for classifying wetland habitat types.

Information on wetland indicators for vegetation, soils, and hydrology was used to identify areas greater than 0.5 acres that, using the 1987 Manual, would likely be considered

wetlands by the DSL. Wetland boundaries were mapped in the field on aerial photographs, and later digitized by DEA Landscape Architects utilizing AutoCAD onto an area basemap.

FUNCTIONAL VALUE ASSESSMENT

Wetlands are known to perform significant functions in the ecosystem, some of which have immediate value to society. Although these functions are complex, interrelated, and difficult to assess and quantify, the DSL has developed a method, described in the *Oregon Freshwater Wetlands Assessment Methodology* (Roth et. al., 1993), to assess wetlands within a given watershed. Wetlands are evaluated for their wildlife and fish habitat values, water quality and hydrologic control values, sensitivity to impact, enhancement potential, educational and recreational values, and aesthetic quality.

Wildlife and Fish Habitat

Wetlands occupy a transitional between terrestrial and aquatic environments, and thus provide important habitat for a particularly wide variety of wildlife species. Biological habitat support refers to a wetland's provision of nesting, breeding, rearing, and feeding habitat for both aquatic and terrestrial wildlife species. Performance of this function is affected by a wetland's size, its hydroperiod, plant species diversity, and plant form diversity.

Water Quality Improvement

Wetlands function to naturally purify water by removing organic and mineral particulate matter through a variety of chemical, physical, and biological processes. For example, particles are physically removed by slowed wetland flow and by passing through dense wetland vegetation. Dense vegetation also enhances the algal and bacterial activity necessary for organic degradation and biochemical uptake of particulates. Wetland conditions may also promote ion exchange which alters chemical pollutants, as well as precipitate chemicals out of the water flow (Reppert et. al., 1979). These processes are affected by a wetland's size, vegetative cover, and proximity to pollution sources. The configuration of a wetland also influences its water quality improvement capability (Adamus et. al., 1987). Wetlands with no permanent outlet have a high capacity for sediment trapping because of slowed flow and filtering of water that percolates into the ground.

Hydrologic Control

Many wetlands are important for water storage and flood retardation during periods of flood or storm water discharge. These wetlands detain water which might otherwise flood areas further downstream, releasing the water more gradually over an extended period of time.

Storm and flood water storage capability varies with a wetland's size, vegetative cover, and proximity to developed areas. Wetlands may be sustained by groundwater which approaches the ground surface during some part of the year, in which case they are groundwater discharge areas. Other wetlands, sustained by precipitation or flooding, are recharge areas. Wetlands may also vary seasonally from being discharge areas to being recharge areas. Large size, permeable substrate, and frequent inundation all contribute to a wetland's capacity for groundwater recharge.

Sensitivity to Impacts

Past environmental impacts can affect the ability of a wetland to recover from new impacts. Factors such as the quality and impacts to its water supply, vegetation type, existing and zoned land uses, and wetland type (e.g., forested or emergent) all contribute to a wetland's sensitivity to impact.

Enhancement Potential

Enhancement potential represents how well a wetland might respond to the mitigation of past environmental impacts. The recovery of a wetland, and its particular functions, depends upon the site's hydrology, its soils and substrate, and the presence of environmental buffers surrounding the wetland.

Education

The educational potential of a wetland is based on its accessibility and diversity. Wetlands that provide habitat for fish and wildlife and have access to other natural features are rated as having a greater educational value than those that do not offer these features.

Recreation

Wetlands provide many recreational activities. Wetlands associated with open water may support boating, fishing, and hunting opportunities. Nonconsumptive uses such as wildlife observation, photography, and walking in or around wetlands may also be present. Safe access, maintained trails, and viewing areas all add to the recreational value of a wetland.

Aesthetic Quality

Wetlands can be areas of scenic beauty. Structural diversity, the presence of visual detractors, its contrast to the surrounding landscape, and the presence or absence of odors and noises all contribute to the wetland's aesthetic quality.

These nine functions are rated for each wetland based on criteria and guidelines in *The Oregon Freshwater Assessment Methodology* (Roth et. al., 1993) and professional judgment must be exercised in assessing these criteria. Data for the functional value assessment was gathered during the field survey and synthesized in the office.

RESULTS

PRELIMINARY RESOURCES REVIEW

National Wetlands Inventory Map

A review of the NWI map (Appendix A) shows several large wetland complexes associated with drainages, and scattered wetlands along the course of both the Crooked River and Ochoco Creek. The Crooked River is mapped as a riverine, lower perennial, unconsolidated bottom, diked/impounded wetland (R2UBh) near its confluence with Ochoco Creek extending to Meadow Lakes Golf Course. From this point to the south it is mapped as a riverine, upper perennial, unconsolidated bottom, diked/impounded (R3UBh) wetland. The entire length of Ochoco Creek within the study area, when not included with another wetland, is mapped as a R3UBh wetland. The Ryegrass drainage is mapped as a palustrine, emergent, seasonal, diked/ impounded (PEMCh) and palustrine, unconsolidated bottom, semipermanent, diked/ impounded (PUBFh) wetland complex. These wetlands follow the drainage to the Ryegrass canal.

A large palustrine, emergent, temporary wetland (PEMA) is mapped in the property below the Ryegrass canal north of the Lamonta Road/Garden Road intersection. Palustrine, emergent, seasonally saturated or flooded wetlands (PEMC) are located in the Industrial Park area and south of Consolidated Pine. The northeast two-thirds of the drainage leading southwest from Barnes Butte Reservoir is mapped as a PEMC and PEMA wetland. The southwest third of is mapped as a riverine, intermittent, streambed, seasonal (R4SBC) wetland. East of Main Street the drainage widens to a PEMC wetland. The Kennedy property is mapped as having large PEMC and PEMA wetlands. Scattered PEMC, PEMA, and palustrine, scrub-shrub, temporary (PSSA) wetlands are located along the Crooked River and Ochoco Creek. A large PEMA wetland is mapped where Meadow Lakes Golf Course is now located.

Soils

According to the Soils Survey, Prineville Area, Oregon (SCS, 1966), the study area encompasses four major soils associations. The Powder-Boyce-Metolius association consists of soils on floodplains and low benches in broad valleys. Within the study area this association is located along Ochoco Creek and the Crooked River. The Gem-Lookout-Agency association is made of soils formed from basaltic materials occurring on uplands. These soils generally occur south of Prineville, bordered by Powder-Boyce-Metolius soils. The Ochoco-Prineville-Courtrock association consists of soils on terraces and broad alluvial fans. This association is located north of the Powder-Boyce-Metolius association. The fourth association, the Searles-Elmre association, consists of soils derived from rhyolite rock on buttes and hills. This association is found only around Barnes Butte in the study area.

Powder-Boyce-Metolius Association

The Powder-Boyce-Metolius association occupies the nearly level flood plain and low benches along the Crooked River and Ochoco Creek. Most of the City is located on this association. About 35 percent of the association is well-drained Powder soils, 15 percent is poorly drained or very poorly drained Boyce soils, and 20 percent is well drained or somewhat excessively drained, pumiceous Metolius soils. About 15 percent consists of the sandy Crooked soils, which are sodic, or alkali, and the remaining 15 percent is mainly Riverwash and Stearns and Forester soils. Of these soils, only Boyce soils are listed as hydric by the Crook County SCS and the NTCHS.

Gem-Lookout-Agency Association

The Gem-Lookout-Agency association, located south of the City, is characterized by steep or very steep topography, but small parts have milder slopes. The pattern of drainage is well defined. About 20 percent of the association is Gem soils, 25 percent is Lookout soils, and 20 percent is Agency soils. Rock land and Bakeoven soils account for about 20 percent. The rest consists mainly of Salisbury, Deschutes, and Redmond soils. None of these soils are listed as hydric by the Crooked County SCS and the NTCHS.

Ochoco-Prineville-Courtrock Association

The Ochoco-Prineville-Courtrock association is located on nearly level or gently sloping terrace that is interrupted in places by shallow drainage-ways and terrace escarpments. About 40 percent of the association is Ochoco soils, 35 percent is well-drained Prineville soils and 10 percent is Courtrock soils. The rest is chiefly Ayres and Slayton soils. None of these soils are listed as hydric by the Crooked County SCS and the NTCHS. The northern part of the City is located on this association.

FIELD RESULTS

The site was investigated on July 19-21, August 31, September 1, 2, and 14, 1994. Hydrology, soils, and plant communities were assessed at 78 data sample plots (Figure 1). Data sheets are included as Appendix C. Results of the field investigation are presented below.

Hydrology

Hydrology of the study area appears to be governed by several processes: seasonal high flows in Ochoco Creek and the Crooked River, seasonal surface run-off channeled in ephemeral and permanent drainages, seeps located where the soil surface intersects the watertable, seasonal fluctuations in the depth to the watertable where ponding or saturation

occurs, and seeps from the extensive system of irrigation canals and dam impoundments found throughout the area. Saturated soils were found adjacent to Ochoco Creek and the Crooked River, often located in impoundments created by placement of dredge-spoils. These areas were usually long and narrow, running parallel to the course of the waterbody. Large areas with positive wetland hydrology were created by seeps from the extensive system of irrigation canals which cross the study area in many locations. These areas are mainly agricultural fields located downslope from the canal.

The two main drainages, generally trending southwest, pass through the study area. The origins of the drainage are outside the study area to the northeast. Barnes Butte Drainage has been dammed with the resultant impounded waterbody known as Barnes Butte Reservoir. Water passes through the base of the dam forming a perennial creek and also saturates a broad southwest-trending swale. As distance from the dam increases, the width of the saturated soil band, on either size of the drainage, decreases until only the creek channel supports wetland hydrology.

The second drainage, Ryegrass Drainage, has a north and east fork before their convergence just northeast of the Ryegrass Canal. The north fork has been dammed in at least two locations creating a series of ponds. Water outfalls from an overflow culvert creating a perennial stream and associated saturated field. The east fork has also been dammed creating a pond supplying water downslope. Ryegrass Canal intercepts downslope flow from this drainage. Below the canal subsurface seepage saturates a small area of the downslope agricultural field.

Ponded and saturated soils are located in the Industrial Park area, on both sides of Garden Road. Hydrology in this area is apparently derived from seeps and ground surface intersection with the watertable. According to area residents, a slough once passed through this area, but extensive fills have apparently permanently altered wetland hydrology.

Soils

Soils observed within the study area closely matched the descriptions in the soil survey (SCS, 1966). Boyce soils (Boyce silt loam, Boyce silt loam ponded, and Boyce loam) were located in each of the main drainages as mapped by SCS. These soils were usually a very dark gray (10YR 3/1) silt loam extending beyond 18 inches. Other soils encountered during the course of the study include Powder silt loam, Powder sandy loam, Powder fine sandy loam, Powder gravely loam, Stearns-Crooked complex, Crooked sandy loam, Stearns silt loam, Prineville sandy loam, Prineville gravely sandy loam, Ayres and Ochoco sandy loam, Metolius sandy loam, Courtrock gravely sandy loam and Riverwash. These soils all occurred in uplands except for Metolius sandy loam in an agricultural field saturated by water seeping from Ryegrass Canal.

Vegetation

Within the boundaries of the UGB much of the native vegetation and plant communities have been disturbed by development and agricultural activities. Uplands were dominated by weedy species such as white sweetclover (*Melilotus alba*), and common yellow sweetclover (*Melilotus officinalis*), prickly lettuce (*Lactuca serriola*), cheatgrass *(Bromus tectorum*), teasel (*Dipsacus sylvestris*), clasping pepperweed (*Lepidium perfoliatum*), lambsquarters (*Chenopodium album*), Canada thistle (*Cirsium arvense*), and summer cypress (*Kochia scoparia*).

Agricultural fields were dominated by both planted and invasive grasses and forbs such as tall fescue (*Festuca arundinacea*), intermediate wheatgrass (*Agropyron intermedium*), Dutch clover (*Trifolium repens*), common dandelion (*Taraxacum officinale*), inland saltgrass (*Distichilis spicata*), mallow (*Malva neglecta*), and alsike clover (*Trifolium hybridum*). Many of the weedy species listed above were often components of agricultural fields.

Wetlands were often dominated by weedy hydrophytic invaders such as reed canarygrass (*Phalaris arundinaceae*), creeping bentgrass (*Agrostis alba*), spike bentgrass (*Agrostis exerata*), inland saltgrass, annual bluegrass (*Poa annua*), and Kentucky bluegrass (*Poa pratensis*). Other hydrophytic communities retained a more natural character and were dominated by native species such as hardstem bulrush (*Scirpus acutus*), American bulrush (*Scirpus americanus*), beaked sedge (*Carex rostrata*), Nebraska sedge (*Carex nebraskensis*), Baltic rush (*Juncus balticus*), long-style rush, (*Juncus longistylis*), narrow-leaf cattail (*Typha latifolia*), and creeping spikerush (*Eleocharis palustris*). Along Ochoco Creek and the Crooked River the shrub layer, where present, was often dominated by coyote willow (*Salix exegua*) and Pacific willow (*Salix lasiandra*).

DISCUSSION

Data compiled from the investigative plots were analyzed and resulted in the identification of 15 wetlands within the study area (Figure 1). The wetland determinations were based on the presence of dominant hydrophytic vegetation, hydric soil indicators, and evidence of positive wetland hydrology. Wetlands ranged from small floodplain bench wetlands immediately adjacent to Ochoco Creek and the Crooked River, to long and broad complex wetlands located in large drainages. Wetlands are grouped by their proximity to either Ochoco Creek, the Crooked River, the Industrial Park, Barnes Butte, or Ryegrass Canal. Wetland Summary Sheets are included as Appendix D. A Study Area Summary Sheet is included as Appendix E. This sheet totals the number and size of wetlands within the study area.

OCHOCO CREEK

Five individual wetlands were located immediately adjacent to Ochoco Creek. All are hydrologically connected by the creek.

Wetland **OC-A**, a palustrine, scrub/shrub, seasonally flooded or saturated (PSSC), 10.32-acre wetland, is located just west of the east border of the study area. Wetlands are found on both sides of the creek. As stated in the *Oregon Freshwater Wetlands Assessment Methodology* (Roth et. al., 1993), when wetlands occur on opposite sides of a river, both sides and the river water in-between are considered part of the same assessment unit. The PSSC wetlands support coyote willow and Pacific willow over narrow-leaf cattail and reed canarygrass. The small associated palustrine, emergent, seasonally flooded or saturated (PEMC) wetlands support creeping spikerush, foxtail barley (*Hordeum jubatum*), and curley dock (*Rumex crispus*). Soils are predominantly a very dark gray (10YR 3/1) silt loam. Hydrologic indicators include soil saturation above a ten-inch depth.

Downstream from wetland OC-A is wetland **OC-B**. This 4.54-acre wetland is located behind the diversion dam in the Ochoco Lumber log yard, extending upstream, east of Willowdale Drive. Narrow-leaf cattail, waterfern (*Azolla mexicana*), and reed canarygrass dominate this PEMC wetland which surrounds a small palustrine, open water, permanently flooded component (POWH). Soils along the fringe of the pond were saturated to the surface. The soil is a black (N2.5/_) silt extending beyond 20 inches deep. Uplands have been filled with wood-waste debris, often to the edge of Ochoco Creek.

Wetland **OC-C**, (0.63 acre) located north of the Madras-Prineville Highway on both sides of Garden Road, is a PEMC wetland located on a floodplain bench of Ochoco Creek. Reed canarygrass offers near 100 percent cover to this wetland. The soil is a very dark gray (10YR 3/1) silt loam extending beyond 20 inches. At the time of the investigation the soil was saturated at an eight-inch depth.

Wetland **OC-D** is a small (0.34 acre) floodplain bench PEMC wetland located on City property along the north bank of Ochoco Creek at the Industrial Park. Reed canarygrass dominates the vegetation with scattered individuals of coyote willow. Soils are a black (10YR 2/1) clay loam, saturated at the time of the investigation at a seven-inch depth. Dredge spoils create an upland barrier between this wetland and Ochoco Creek. An extensive wetland fill area extends north of this wetland into the Industrial Park.

Wetland **OC -E**, a 0.88 acre floodplain bench PEMC wetland, is located along the west bank of Ochoco Creek and includes portions of the Green Acres Mobile Home property and the property to the south. While vegetation at the mobile home park is disturbed by mowing, undisturbed vegetation to the south is dominated by reed canarygrass and narrow-leaf cattail. Soils are a mottled dark gray (10YR 4/1) silt loam, saturated at a four-inch depth.

CROOKED RIVER

Two PEMC wetlands are located on the Kennedy property, east of the Crooked River. Hydrology from each of these wetlands is apparently derived from subsurface seepage originating from the Diversion Canal. Wetland **CR-A**, (14.63 acres) located immediately downslope from the canal is an active agricultural pasture. This is an irrigation induced wetland. At the time of the investigation the soil was saturated to the surface. Vegetation was dominated planted tall fescue and Dutch clover, and hydrophytic volunteer species such as silverweed (*Potentilla anserina*) and creeping spikerush (*Eleocharis palusteris*). The soil is a dark gray (10YR 4/1) loamy sand.

Wetland **CR-B** (11.88 acres) is essentially an unmaintained drainage swale trending northwest from Wetland CR-A. There was no apparent surface hydrologic connection to CR-A so these wetlands were separated, though they have a common source of hydrology. Vegetation is dominated by spikerush, foxtail barley, Baltic rush, and long-style rush. Soils are predominately a very dark gray (10YR 3/1) loam in the southeast portions of the swale changing to a very dark gray (10YR 3/1) clay loam near the Fairgrounds. The soil in the drainage swale was inundated to a depth of several inches. Soil adjacent to the swale was saturated above a ten-inch depth.

Wetland **CR-C** (0.89 acre) is located in the Valley Meadows Golf Course, previously delineated by DEA Biologists (DEA, 1991)

Wetland **CR-D**, located north of the golf course on the north bank of the Crooked River, is a 1.06 acre PEMC floodplain wetland. Hardstem bulrush, beaked sedge, creeping bentgrass (*Agrostis stolonifera*), and American bulrush dominate the wetland. The soil is a mottled dark gray (10YR 4/1) loamy sand to a very dark gray (N3/) riverwash sand, saturated to the surface.

BARNES BUTTE

One large continuous 77.25-acre PEMC wetland (**BB-A**) extends from Barnes Butte Reservoir and trends southwest to its terminus at Main Street south of the Nursery property. Barnes Butte Reservoir is a palustrine, open water, permanently flooded wetland (POWH). Water passing through the base of the dam forms a perennial creek with an associated saturated broad swale dominated by foxtail barley, American bulrush, clustered field sedge (*Carex praegracilis*), Baltic rush, narrow-leaf cattail, spike bentgrass, annual bluegrass (*Poa annua*), and Kentucky bluegrass. A lobe of this wetland extends east from the main swale. Hydrology in this portion of the wetland is derived from subsurface seepage from an irrigation canal located to the east. As distance from the Barnes Butte Reservoir increases, the width of the saturated soil band decreases until only the creek channel supports wetland hydrology and vegetation. Immediately east of Main Street the wetland is confined to the channel, dominated by narrow-leaf cattail. Soils in the wetland are mainly a dark gray (10YR 4/1) to a very dark gray (10YR 3/1) sandy loam to loamy sand.

RYEGRASS CANAL

RG-A is an 18.86-acre PEMC wetland located in an agricultural field north of Lamonta Road at the intersection with Garden Road. Permission was not granted to enter this property for conducting this study. So wetland characteristics were determined from off-site observations, aerial photographs, and previous geotechnical studies (Centuary West Engineering, 1988). The geotechnical study documents the occurrence of at least one artesian well on the property. Narrow-leaf cattail and hardstem bulrush, both OBL species, are clearly visible from the roadside.

RG-B is a 42.24-acre PEMC wetland found in the two drainages forming the Ryegrass Drainage. Both forks of the drainage have been dammed creating POW wetlands hydrologically connected to the adjacent PEMC wetland. The north fork has been dammed in at least two locations creating a series of ponds. Water draining from the ponds creates a narrow perennial stream. Saturated fields are associated with this drainage. These are dominated by a mixture of planted upland species and hydrophytic volunteer species such as American bulrush and foxtail barley. The mottled very dark gray (10YR 3/1) loam was saturated either to the surface or within ten inches of the surface. The east fork is dominated by Nebraska sedge and Dutch clover. Water from both drainages enters Ryegrass Canal. A small area west of the canal is included in this wetland. Water seeping from the canal creates the hydrology for this portion of the wetland.

INDUSTRIAL PARK

The Industrial Park is located downslope from the Ryegrass Drainage and the property containing the artesian well. Prior to construction of Ryegrass Canal, which intercepts Ryegrass Drainage water, this entire area would likely have been wetland. Past and recent fills now cover much of this area. A large area that retains wetland characteristics is located

on Consolidated Pine property, south of the buildings (**IP-A**). The soil of this 18.32-acre PEMC wetland is a very dark gray (10YR 3/1) mucky loam to silt loam. The soil was saturated to the surface with ponded areas evident. Narrow-leaf cattail, poison hemlock (*Conium maculatum*), and broad-leaved pepperweed (*Lepidium latifolium*) dominate the site. Southern areas of the wetland are grazed and the vegetation is dominated by inland saltgrass. To the north and west the area has been filled with wood waste debris.

Wetland **IP-B** is located northwest of IP-1, immediately east of Garden Road. To the east the area has been filled with wood waste. Undoubtedly this wetland and Wetland IP-1 were at one time one wetland. Narrow-leaf cattail dominates this 0.34-acre PEMC wetland. Water was observed at the surface.

Wetland **IP-C** is located at the west end of Industrial Park Road. Much of this area has been covered with large, recent fills. Where vegetated, weedy, ruderal species dominate this 2.55-acre PEMC wetland. These include field pennycress (*Thlaspi arvense*), Canada thistle (*Cirsium arvense*), and clasping pepperweed (*Lepidium perfoliatum*). Narrow-leaf cattail dominates the central portion of this wetland. Soils are a gray (10YR 5/1) to a very dark gray (10YR 3/1) clay loam, saturated at a six-inch depth. Immediately north of the Industrial Park in undisturbed areas, the vegetation is dominated by such hydrophytic species as foxtail barley, Baltic rush, Nebraska sedge, and American bulrush. The narrow-leaf cattail dominated area, less than 1.0 acre in size, was determined to be a natural wetland. The area dominated by ruderal species was determined to be an irrigation induced wetland.

Table 2 summarizes wetland type and wetland acreages found within the study area.

Table 2
Wetland Acreages

Wetland Identifier	Wetland Classification	Wetland Acreage
OC-A	PSSC	10.32
OC-B	PEMC	4.54
OC-C	PEMC	0.63
OC-D	PEMC	0.34
OC-E	PEMC	0.88
CR-A	PEMC	14.63
CR-B	PEMC	11.88
CR-C	PEMC	0.89
CR-D	PEMC	1.06
BB-A	PEMC	77.25
RG-A	PEMC	18.86
RG-B	PEMC	42.24
IP-A	PEMC	18.32
IP-B	PEMC	0.34
IP-C	PEMC	2.55
Total		204.73

FUNCTIONAL VALUE ASSESSMENT

Below is a synthesis of the functional value assessment made for the wetlands. Functions may exist for these wetlands beyond what was observed at the time of the field investigation. It is important to note that the values given to functions of each wetland may not necessarily indicate that each part of each wetland identified performs these functions or has these values. Care must be taken in interpreting this assessment.

In accordance to methods outlined in the *Oregon Freshwater Wetlands Assessment Methodology* (Roth, et. al., 1993) an investigation was made to determine whether any wetlands within the study area are included in an agency management plan, are protected by regulatory rules or statutes, contains sensitive, threatened, or endangered (STE) species, are designated as critical habitat for a STE species, or are uncommon in Oregon. To fulfill this requirement, correspondence was sent to DSL, ACOE, National Marine Fisheries Service, Oregon Department of Agriculture, Oregon Department of Fish and Wildlife (ODFW), Oregon Natural Heritage Program USFWS, Agricultural Stabilization and Conservation Service, and the Oregon Department of Environmental Quality (DEQ). Correspondence to these agencies and their replies is included as Appendix E.

Only wetlands with direct contact with either the Crooked River or Ochoco Creek may be of special interest for protection due to ODFW's reporting to DEA that red-band trout (*Oncorrhynchus mykiss*) are distributed along the entire length of both the Crooked River and Ochoco Creek within the study area. Redband trout (all groups east of the Cascades except those found in the Deschutes River System) is a state listed 'Vulnerable' species (ODFW, 1993). A 'Vulnerable' species is one for which listing as threatened or endangered is not believed to be imminent and can be avoided through continuous or expanded use of adequate protective measures and monitoring. There were no other positive responses for any of the parameters investigated.

Wetlands of Special Interest for Protection Answer Sheets from the *Oregon Freshwater Wetlands Assessment Methodology* (Roth, et. al., 1993) are included as Appendix F. A complete summary of the wetland assessment questions is included as Appendix G. Function and Condition summary sheets from the *Oregon Freshwater Wetlands Assessment Methodology* are included in Appendix H. The following ia s summary of the main results of the functional and values assessment.

In general, wetlands in the Prineville study area rated highest for providing water quality benefits and hydrologic support. These are either large wetlands BB-A, RG-A, and RG-B, or are located in industrial areas or adjacent the Crooked River or Ochoco Creek. All wetlands were rated as providing habitat for some species. Low structural diversity or low interspersion with uplands precluded a higher wildlife habitat rating.

All wetlands were either rated as susceptible or potentially susceptible to secondary effects. These ratings are the result of the extensive modifications to streams (channelization, levees, and dams) and the active irrigation system within the study area.

Wetlands in the area that offer educational or recreational benefits are located near Ochoco Creek, the Crooked River, or the two main drainages identified in the report. Since most wetlands are on private property, these opportunities are subject to owner approval.

SUMMARY AND CONCLUSIONS

The wetland determinations carried out to complete this LWI resulted in the identification of 15 wetlands within the study area. Positive indicators of wetland hydrology, hydric soils, and wetland hydrology were observed within each of these wetlands. Wetlands ranged from small floodplain bench wetlands to large expansive wetlands located in drainages leading toward Ochoco Creek. Wetlands were generally determined to be palustrine, emergent, wetlands, seasonally saturated or flooded. Highest value wetlands are those directly associated with the Crooked River and Ochoco Creek due to the potential occurrence of red-band trout.

DEA

REGULATORY REQUIREMENTS AND IMPLICATIONS

Several federal, state, and local regulations affect development in wetlands. Agencies having jurisdiction over impacts proposed in wetlands include the City, DSL, SCS, and the ACOE. Wetland boundaries determined by DEA are subject to verification and approval by these agencies.

The ACOE administers Section 404 of the Clean Water Act, which regulates the discharge of dredged or fill materials into waters of the United States, including wetlands. Thirty-six classes of activities are included under the NWP heading. These all constitute activities expected to have minor wetland impacts. NWP 26 under Section 404 allows the filling of one acre of isolated wetlands or adjacent wetlands located above the headwaters with a pre-discharge notification. State of Oregon Water Quality Certification must also be obtained from the DEQ before commencing work. Only the ACOE can determine whether wetlands are isolated, headwaters, or adjacent to non-headwaters for the purposes of this NWP, although DEA ecologists can provide professional opinions on this matter in the permitting process. The ACOE requires either a Nationwide or an Individual Permit for more than one acre of fill, but less than ten acres, for these types of wetlands, or for any amount of fill in adjacent wetlands below headwaters. Individual Permits are both time consuming and costly, requiring multiple agency review and an alternatives analysis. Also, ACOE presumes that other upland alternatives for development are available until the applicant clearly demonstrates otherwise.

Filling of wetlands is not permitted in documented habitat for listed endangered, threatened, or sensitive plant or animal species.

Recommendations

Upon acceptance of this report by DSL, this report satisfies the criteria set forth in the *Local Wetlands Inventory: Guidance for Consultants and Local Governments* (Morlan, 1993), and the *Proposed Revisions 8/94* (Morlan, 1994).

This study, limited to wetlands greater than 0.50 acres, serves as the basis for conductance of a Wetland Conservation Plan Inventory, in which all wetlands 0.01 acre and larger are mapped.

A LWI provides good information for planning purposes and on location of potentially regulated wetlands, but is not of sufficient detail for regulatory certainty under the state Removal-Fill Law. Wetlands and other waters of the state are under jurisdiction of ACOE and DSL. Wetland limits determined in this delineation are based on the methods discussed above and DEA's best professional judgment. Prior impacting any wetland, DSL, ACOE and SCS should be contacted to verify the findings of this report and to obtain appropriate approvals and permits.

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Swirsky, Karen L., Ecologist/Planner with David Evans and Associates, Inc., MS Biology, California State University in Los Angeles, served as Project Manager, performed field wetland determinations, and provided Total Quality Management review of this report.

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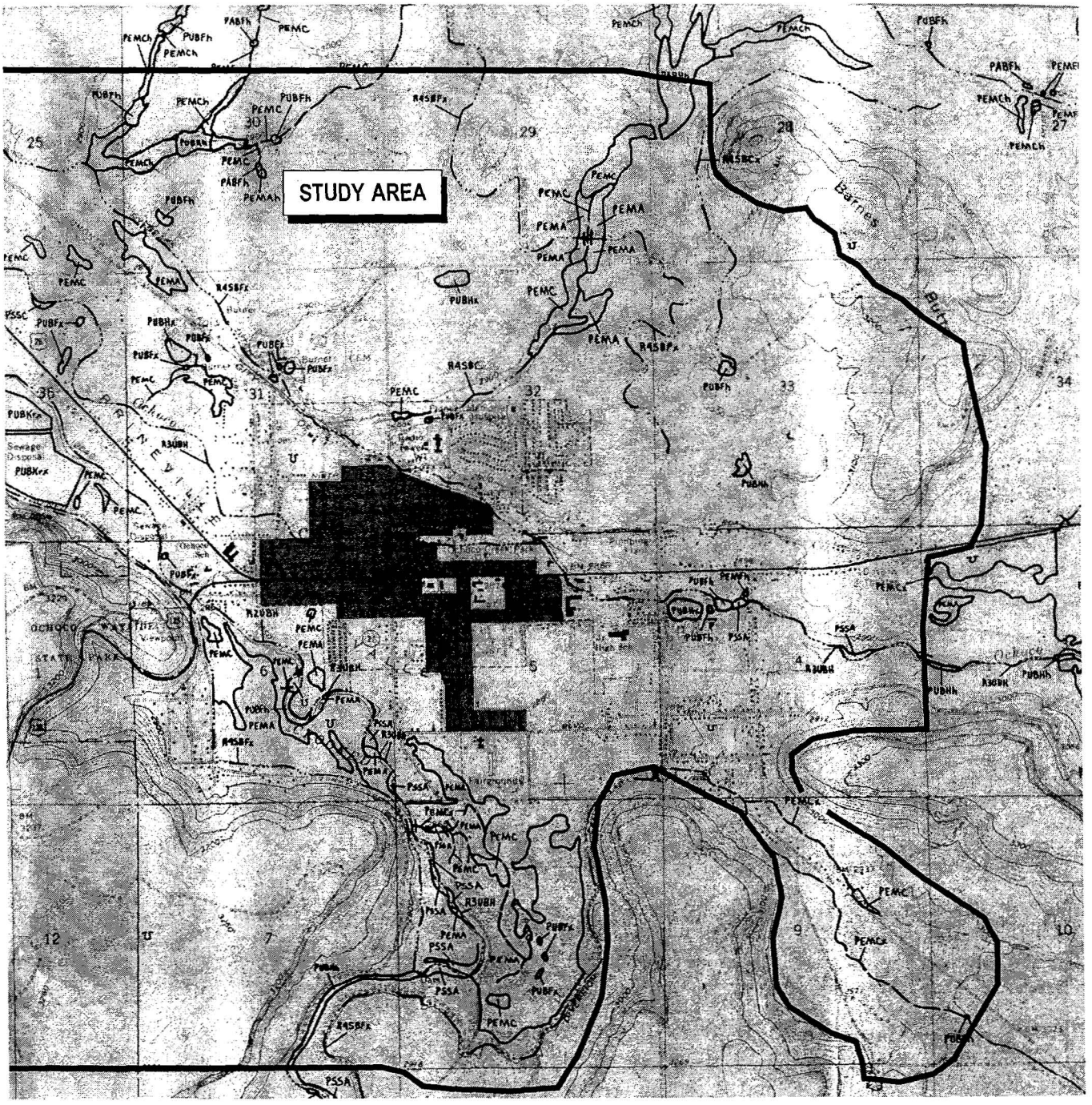
APPENDIX A

USFWS NATIONAL WETLANDS INVENTORY

LEGEND					
PEMCh	Palustrine, emergent, seasonal, diked/impounded	PUBFh	Palustrine, unconsolidated bottom, semi-permanent, diked/impounded	R4SBFx	Riverine, intermittent streambed, semipermanent, excavated
PEMFx	Palustrine, emergent, semi-permanent, excavated	RZUBH	Riverine, lower perennial, unconsolidated bottom, permanent	PSSA	Palustrine, scrub/shrub, temporary
PEMA	Palustrine, emergent, temporary	R3UBH	Riverine, upper perennial, unconsolidated bottom, permanent	PUBFx	Palustrine, unconsolidated bottom, semi-permanent, excavated
PEMC	Palustrine, emergent, seasonal	PABHh	Palustrine, aquatic bed, permanent, diked/impoun	PUBHy	Paulustrine, unconsolidated bottom, permanent, excavated
PSSC	Palustrine, scrub/shrub, seasonal	u	Upland		Approximate Study Area border



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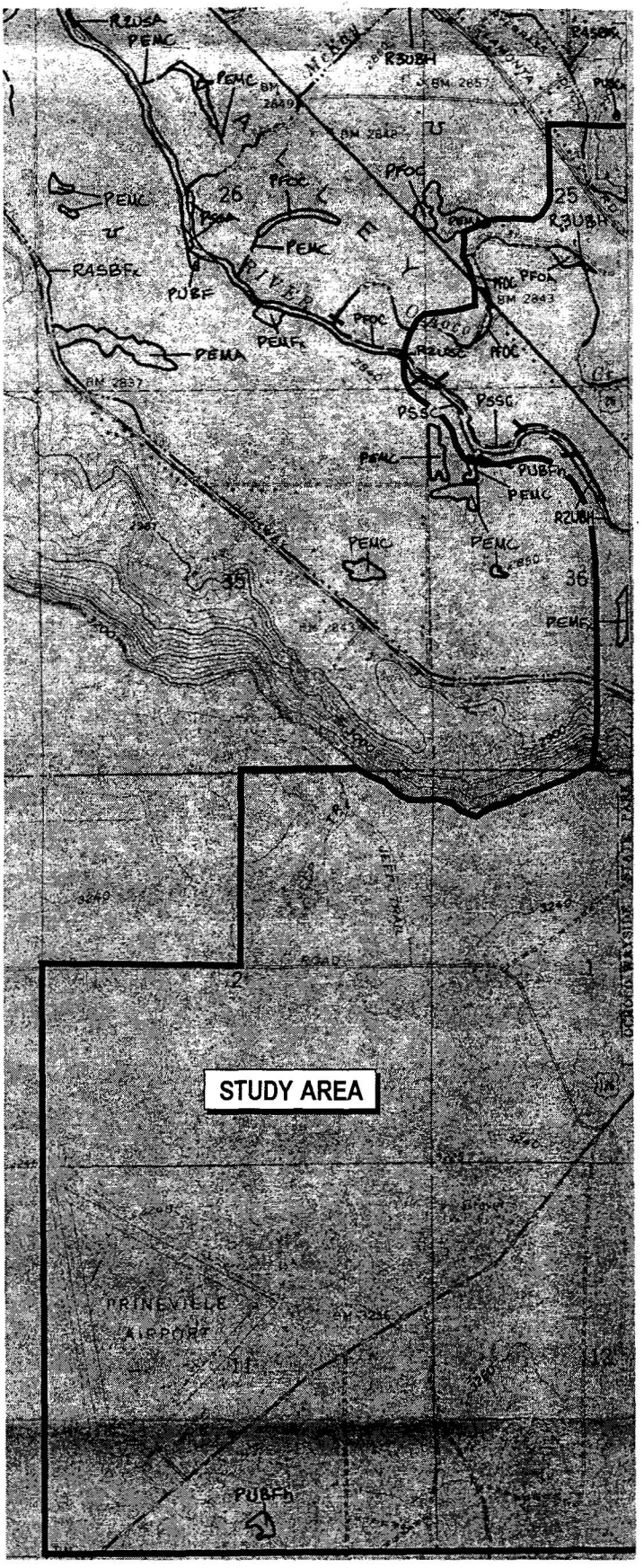
CITY OF PRINEVILLE

LOCAL WETLANDS INVENTORY

APPENDIX A
USFWS National Wetlands Inventory
Prineville, Oregon Quadrant

LEGEND

PEMCh	Palustrine, emergent, seasonal, diked/impounded
PEMFx	Palustrine, emergent, semi-permanent, excavated
PEMA	Palustrine, emergent, temporary
PEMC	Palustrine, emergent, seasonal
PSSC	Palustrine, scrub/shrub, seasonal
PUBFh	Palustrine, unconsolidated bottom, semi-permanent, diked/impounded
RZUBH	Riverine, lower perennial, unconsolidated bottom, permanent
R3UBH	Riverine, upper perennial, unconsolidated bottom, permanent
PABHh	Palustrine, aquatic bed, permanent, diked/impoun
R4SBFx	Riverine, intermittent streambed, semipermanent, excavated
PSSA	Palustrine, scrub/shrub, temporary
PUBFx	Palustrine, unconsolidated bottom, semi-permanent, excavated
PUBHy	Paulustrine, unconsolidated bottom, permanent, excavated
u	Upland
▬	Approximate Study Area border



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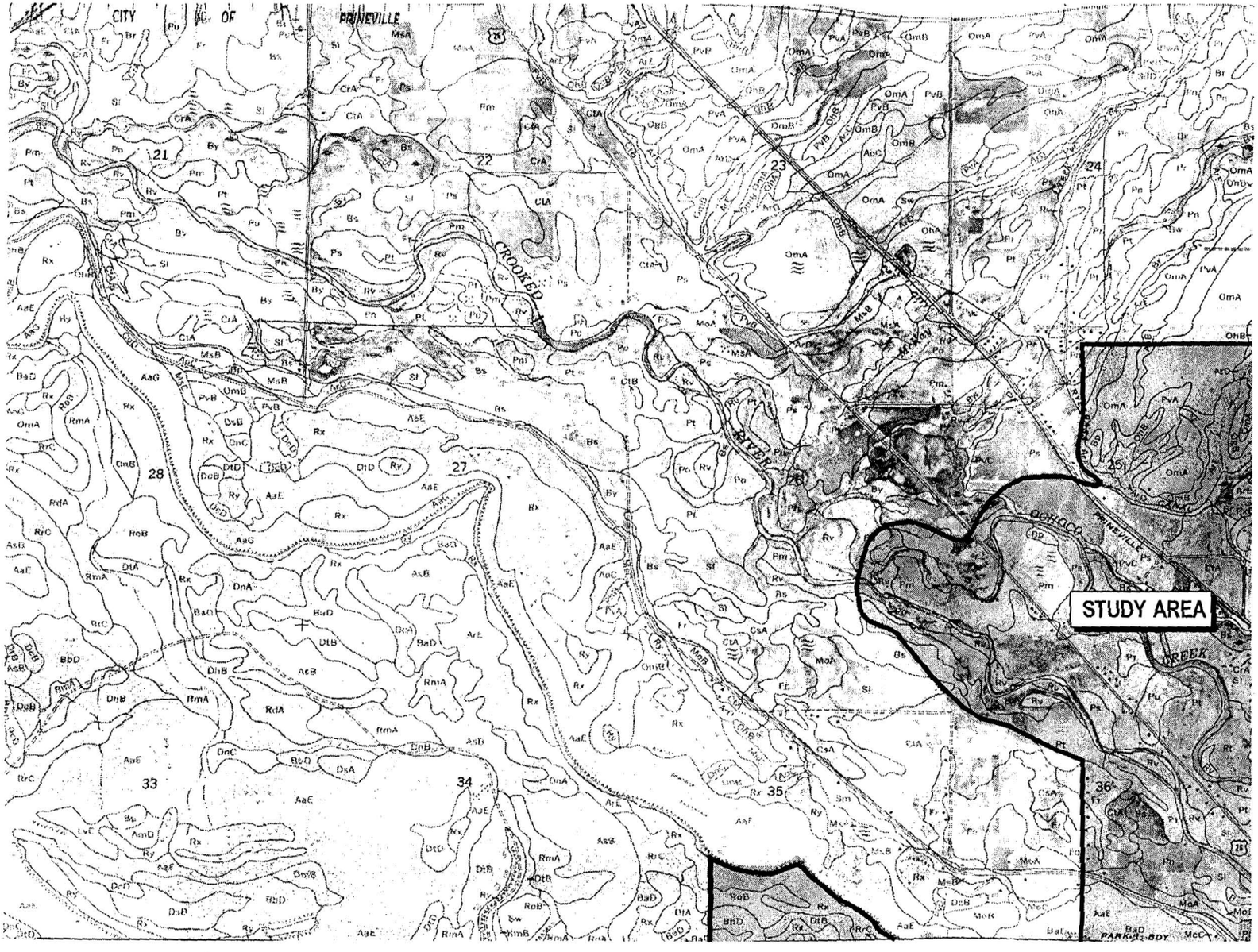
LOCAL WETLANDS INVENTORY

APPENDIX A
USFWS National Wetlands Inventory
Huston Lake, Oregon Quadrant

APPENDIX B

SCS SOIL SURVEY OF THE PRINEVILLE AREA

AaE	Agency very stony sandy loam, 6 to 40 % slopes
AaG	Agency very stony sandy loam, 40 to 70% slopes
AdB	Ayres sandy loam, 2 to 6 % slopes
AdC	Ayres sandy loam, 6 to 12% slopes
AgB	Ayres gravelly sandy loam, 2 to 6 % slopes
AgC	Ayres gravelly sandy loam, 6 to 12% slopes
AmB	Ayres stony sandy loam, 0 to 6% slopes
AmD	Ayres stony sandy loam, 6 to 20% slopes
AoA	Ayres and Ochoco sandy loams, 0 to 2% slopes
AoB	Ayres and Ochoco sandy loams, 2 to 6% slopes
AoC	Ayres and Ochoco sandy loams, 6 to 12% slopes
AoD	Ayres and Ochoco sandy loams, 12 to 20% slopes
ArA	Ayres and Ochoco gravelly sandy loams, 0 to 2 % slopes
ArD	Ayres and Ochoco gravelly sandy loams, 6 to 20% slopes
ArE	Ayres and Ochoco gravelly sandy loams, 20 to 40% slopes
AsB	Ayres and Ochoco stony sandy loams, 0 to 6% slopes
BaD	Bakeoven very stony loam, 0 to 20% slopes
BbD	Bakeoven very stony sandy loam, 0 to 20% slopes
Bp	Borrow pits
Br	Boyce loam, light-colored variant
Bs	Boyce silt loam
Bw	Boyce silt loam, ponded
By	Boyce silty clay loam
CkA	Courtrock sandy loam, 0 to 2 % slopes
CkB	Courtrock sandy loam, 2 to 6 % slopes
CkC	Courtrock sandy loam, 6 to 12 % slopes
CmA	Courtrock gravelly sandy loam, 0 to 2 % slopes
CmB	Courtrock gravelly sandy loam, 2 to 6 % slopes
CmC	Courtrock gravelly sandy loam, 6 to 12% slopes
CoB	Courtrock stony sandy loam, 2 to 6% slopes
CoD	Courtrock stony sandy loam, 6 to 20% slopes
CrA	Crooked loam, 0 to 2% slopes
CsA	Crooked loamy sand, 0 to 2% slopes
CtA	Crooked sandy loam, 0 to 2% slopes
CtB	Crooked sandy loam, 2 to 6% slopes
DaED	Day clay, 6 to 40% slopes
DcA	Deschutes loamy sand, 0 to 2% slopes
DcB	Deschutes loamy sand, 2 to 6% slopes
DcD	Deschutes loamy sand, 6 to 20% slopes
DdA	Deschutes loamy sand, moderately deep over hardpan, 0 to 2% slopes
DdB	Deschutes loamy sand, moderately deep over hardpan, 2 to 6% slopes
DmB	Deschutes stony loamy sand, 0 to 6% slopes
DnA	Deschutes sandy loam, 0 to 2% slopes
DnB	Deschutes sadny loam, 2 to 6% slopes
DnC	Deschutes sandy loam, 6 to 12% slopes
DoA	Deschutes sandy loam, moderately deep over hardpan, 0 to 2% slopes
DoB	Deschutes sandy loam, moderately deep over hardpan, 2 to 6% slopes
DoC	Deschutes sandy loam, moderately deep over hardpan, 6 to 12% slopes
DpA	Deschutes sandy loam, deep over hardpan, 0 to 2% slopes
DrA	Deschutes sandy loam, moderately deep over gravel, 0 to 2% slopes
DrB	Deschutes sandy loam, moderately deep over gravel, 2 to 6% slopes
DsA	Deschutes sandy loam, deep over basalt, 0 to 2% slopes
DsB	Deschutes sandy loam, deep over basalt, 2 to 6 % slopes
DtA	Deschutes stony sandy loam, 0 to 2% slopes
DtB	Deschutes stony sandy loam, 2 to 6% slopes
DtD	Deschutes stony sandy loam, 6 to 20% slopes
DuB	Deschutes-Bakeoven very stony sandy loams, 0 to 6% slopes
DvB	Deschutes-Bakeoven sandy loams, 0 to 6% slopes
EmE	Elmore very stony loam, 6 to 40% slopes
Fo	Forester loamy sand
Fr	Forester sandy loam
GaD	Gem stony loam, 6 to 20% slopes
GbE	Gem very stony loam, 6 to 40% slopes
GcE	Gem-Day stony clay loams, 12 to 40% slopes
GgE	Gem-Searless stony loams, 6 to 40% slopes
LaB	Lamonta loam, 0 to 6% slopes
LgC	Lamonta gravelly loam, 6 to 12% slopes
LmD	Lamonta stony loam, 6 to 20% slopes
LoA	Lookout loam, 0 to 2% slopes
LoB	Lookout loam, 2 to 6% slopes
LsB	Lookout stony loam, 0 to 6% slopes
LsD	Lookout stony loam, 6 to 20% slopes
LvE	Lookout very stony loam, 0 to 40% slopes
MaA	Metolius loam, 0 to 2% slopes
MoA	Metolius loamy sand, 0 to 2% slopes
MoB	Metolius loamy sand, 2 to 6% slopes
MoC	Metolius loamy sand, 6 to 12% slopes
MsA	Metolius sandy loam, 0 to 2% slopes
MsB	Metolius sandy loam, 2 to 6% slopes
MsC	Metolius sandy loam, 6 to 12% slopes
MsD	Metolius sandy loam, 12 to 20% slopes
OcA	Ochoco loam, 0 to 2% slopes
OcB	Ochoco loam, 2 to 6% slopes
OdB	Ochoco loamy sand, 2 to 6% slopes
OgB	Ochoco gravelly loam, 2 to 6% slopes
OhA	Ochoco gravelly sandy loam, 0 to 2% slopes
OhB	Ochoco gravelly sandy loam, 2 to 6% slopes
OmA	Ochoco sandy loam, 0 to 2% slopes
OmB	Ochoco sandy loam, 2 to 6% slopes
OmC	Ochoco sandy loam, 6 to 12% slopes
OoA	Ochoco sandy loam, seeped, 0 to 2% slopes
Op	Ontko clay loam, ponded
Ot	Ontko clay loam and clay
PaB	Polly loam, 0 to 6% slopes
PaC	Polly loam, 6 to 12% slopes
PgB	Polly gravelly loam, 0 to 6% slopes
PgC	Polly gravelly loam, 6 to 12% slopes
PhB	Polly sandy loam, 2 to 6% slopes
PkB	Polly sandy loam, thick surface, 2 to 6% slopes
PkC	Polly sandy loam, thick surface, 6 to 12% slopes
PlD	Polly stony loam, 6 to 20% slopes
Pm	Powder loam
Pn	Powder fine sandy loam, coarse variant
Po	Powder fine sandy loam, over gravel, coarse variant
Pr	Powder gravelly loam
Ps	Powder sandy loam
Pt	Powder silt loam
Pu	Powder silt loam, over gravel
PvA	Prineville sandy loam, 0 to 2% slopes
PvB	Prineville sandy loam, 2 to 6% slopes
PvC	Prineville sandy loam, 6 to 12% slopes
PwA	Prineville sandy loam, thick surface, 0 to 2% slopes
PwB	Prineville sandy loam, thick surface, 2 to 6% slopes
PwC	Prineville sandy loam, thick surface , 6 to 12% slopes
PxB	Prineville gravelly sandy loam, 2 to 6% slopes
PxD	Prineville gravelly sandy loam, 6 to 20% slopes
RdA	Redmond loam, 0 to 2% slopes
RmA	Redmond sandy loam, 0 to 2% slopes
RmB	Redmond sandy loam, 2 to 6% slopes
RnB	Redmond stony loam, 0 to 6% slopes
RoB	Redmond stony sandy loam, 0 to 6% slopes
RrC	Redmond very stony sandy loam, 6 to 12% slopes
Rv	Riverwash
Rx	Rock land
Ry	Rock outcrop
SaB	Salisbury loam, 0 to 6%slopes
SbB	Salisbury very stony loam, 0 to 6% slopes
SbD	Salisbury very stony loam, 6 to 20% slopes
ScD	Searles stony loam, 2 to 20% slopes
ScE	Searles stony loam, 20 to 40% slopes
SdD	Searles stony clay loam, 6 to 20% slopes
SdE3	Searles stony clay loam, 20 to 40% slopes, severely eroded
SeD	Searles stony sandy loam, 6 to 20% slopes
SeE	Searles stony sandy loam, 20 to 40% slopes
SfD	Searles-Slayton complex, 2 to 20% slopes
SfE	Searless-Slayton complex, 20 to 40% slopes
ShD	Slayton channery sandy loam, 2 to 20% slopes
ShE	Slayton channery sandy loam, 20 to 40% slopes
SkD	Slayton sandy loam, 2 to 20% slopes
Sl	Steams silt loam
Sm	Stearns-Crooked complex
Ss	Steiger sandy loam
Sw	Swartz silt loam
Va	Veazie loam
Vb	Veazie loam, shallow
Vg	Veazie gravelly loam
Vr	Veazie-Riverwash complex



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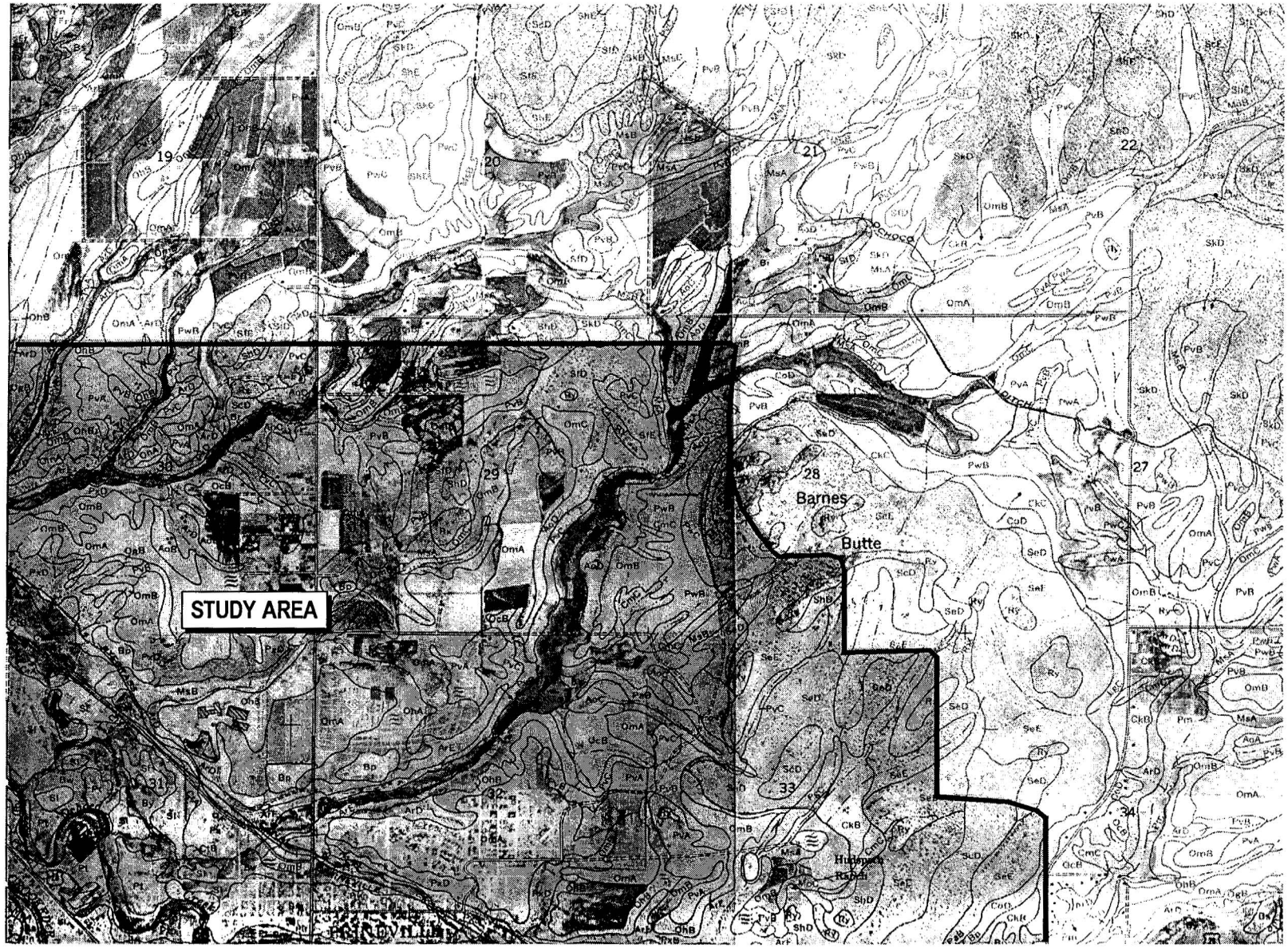
LOCAL WETLANDS INVENTORY

APPENDIX B
USDA SCS Soil Survey
Prineville Area, Oregon
Sheet 9



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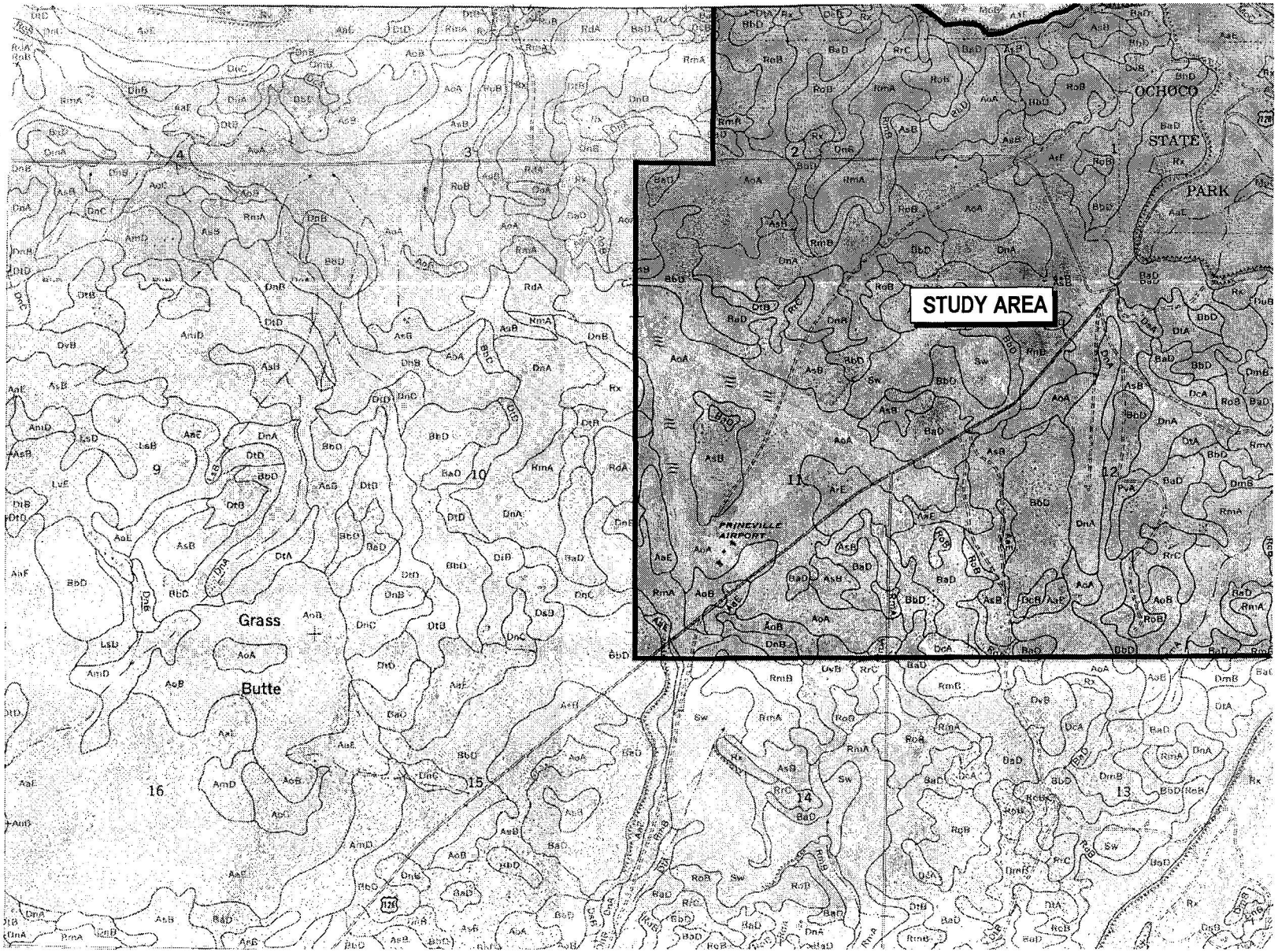
APPENDIX B
USDA SCS Soil Survey
Prineville Area, Oregon
Sheet 10



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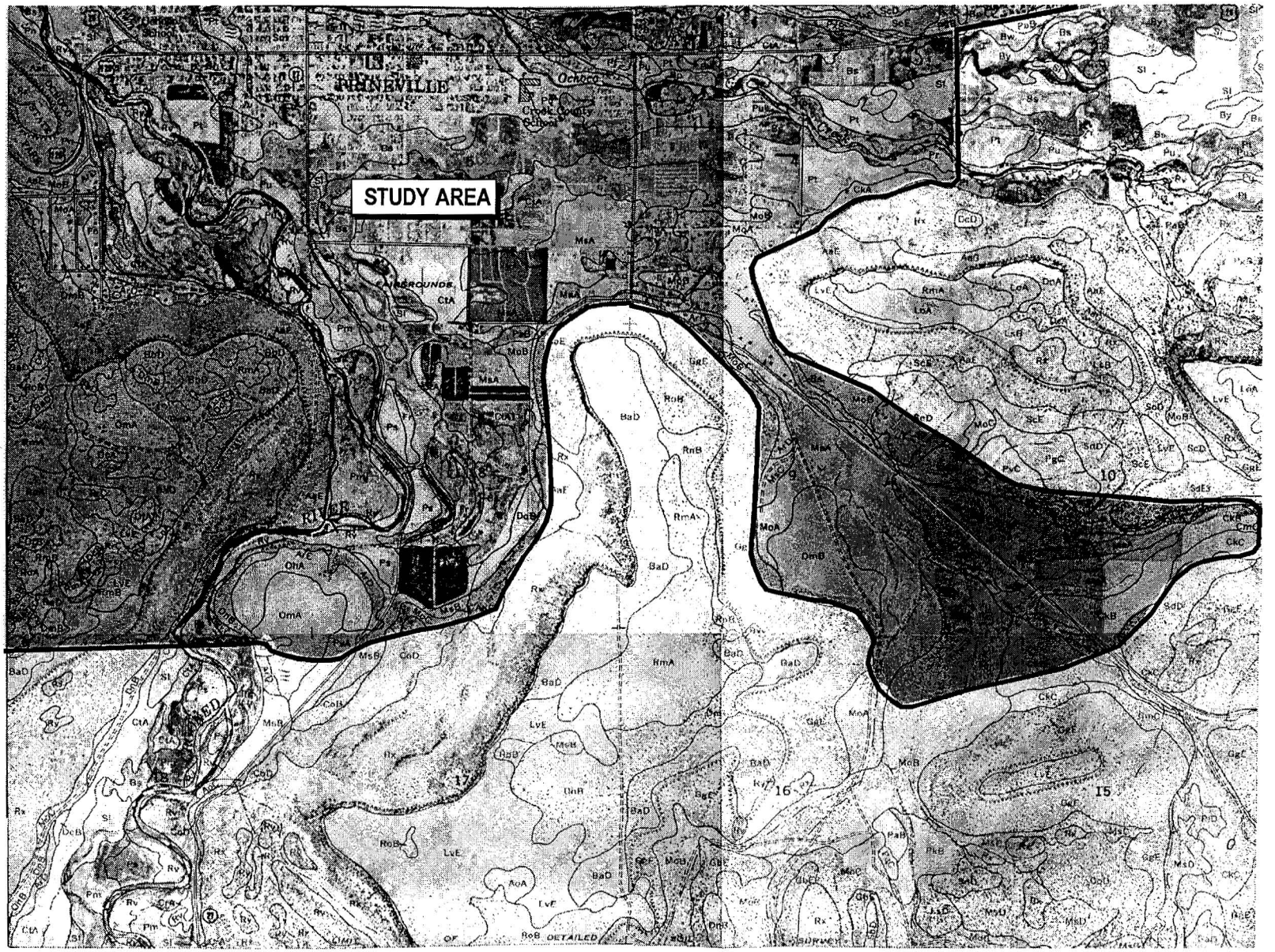
2828 SW CORBETT AVENUE
PORTLAND, OREGON 97201

CITY OF PRINEVILLE
LOCAL WETLANDS INVENTORY

APPENDIX B
USDA SCS Soil Survey
Prineville Area, Oregon
Sheet 17



DAVID EVANS AND ASSOCIATES, INC.
2828 SW CORBETT AVENUE
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CITY OF PRINEVILLE
LOCAL WETLANDS INVENTORY

APPENDIX B
USDA SCS Soil Survey
Prineville Area, Oregon
Sheet 18

Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	BB-1
Applicant/Owner:	City of Prineville	**Date:**	9/2/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Hudspeth Property, east side of drainage, 50 feet downslope from plot BB-2		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	90*
2 *Scirpus americanus*	OBL	H	20
3 *Poa annua*	FAC	H	15
4 *Carex praegracilis*	FACW	H	15
5 *Juncus balticus*	FACW+	H	10
6 *Festuca arundinacea*	FAC-	H	10
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase:	Boyce silt loam	**Is the soil on the hydric soils list? Y/N**	Yes
Soil profile:	0-20" 10YR 4/1 sandy loam		

Other hydric soil indicators:

Hydrology:

Visual observation of inundation.				**Y/N**	No
Visual observation of soil saturation.				**Y/N**	Yes
	Depth to saturated soil:	3"		**Depth to free standing water:**	>18"
Drift lines. Y/N	No	**Sediment deposits. Y/N**	No	**Drainage patterns. Y/N**	Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	Yes
Is the hydric soil criterion met?	**Y/N**	Yes
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	Yes

Comments:

Hydrology derived from water seeping from Barnes Butte Reservoir

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Karen Swirsky and Kevin O'Hara	**Plot or Pit No.**	BB-10
Applicant/Owner:	City of Prineville	**Date:**	7/20/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Prineville Properties- side drainage/ mint field		
Prevailing Weather Conditions:	Sunny and hot, temperatures in mid-to-upper-90s F.		

General Site Conditions:

Undeveloped open area

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	40*
2 *Scirpus americanus*	OBL	H	20*
3 *Cirsium arvense*	FACU+	H	20*
4 *Eleocharis palustris*	OBL	H	10
5 *Myosotis laxa*	OBL	H	10
6 *Bromus tectorum*	UPL	H	5
7 *Senecio crassulus*	FACU	H	10
8 *Centaurium umbellatum*	FAC	H	1
9			
10			
			* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 67%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 4/1 sandy loam with 10YR 3/6 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: Surface — **Depth to free standing water:** 15"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-4

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, west side of drainage upslope from Prinville Properties

Prevailing Weather Conditions: *Sunny and warm, temperature 80 F.*

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Hordeum jubatum*	FAC+	H	60*
2 *Scirpus americanus*	OBL	H	40*
3 *Carex praegracilis*	FACW	H	20
4 *Juncus balticus*	FACW+	H	1
5 *Erigeron lonchophyllus*	FACW	H	1
6 *Poa annua*	FAC	H	1
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 3/1 sandy loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: Surface — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

Hydrology derived from water seeping from Barnes Butte Reservoir

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-5

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, west side of drainage, 100 feet upslope from plot BB-4

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron repens*	FACU	H	90*
2 *Poa pratensis*	FAC	H	5
3 *Sisymbrium altissium*	UPL	H	1
4 *Melilotus alba*	FACU	H	1
5 *Malva neglecta*	UPL	H	1
6 *Chenopodium album*	FAC	H	1
7 *Iva axillaris*	FAC	H	1
8 *Lepidium perfoliatum*	FACU+	H	1
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Prineville sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/3 silt loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Wetland limit along toe-of-slope

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-6

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, east arm of drainage extending to irrigation canal, 50 feet north (upslope) of plot BB-7

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Melilotus officinalis*	FACU	H	40*
2 *Melilotus alba*	FACU	H	15*
3 *Cirsium arvense*	FACU+	H	10
4 *Agropyron repens*	FACU	H	10
5 *Plantago lanceolata*	FAC	H	5
6 *Lotus corniculatus*	FAC	H	5
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Ayres & Ochoco sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/3 silt loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Wetland limit along toe-of-slope

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	BB-7
Applicant/Owner:	City of Prineville	**Date:**	9/2/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Hudspeth Property, east arm of drainage extending to irrigation canal		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Poa annua*	FAC	H	70*
2 *Agropyron repens*	FACU	H	25*
3 *Scirpus americanus*	OBL	H	20*
4 *Festuca arundinacea*	FAC-	H	5
5 *Agrostis exarata*	FACW	H	5
6 *Juncus balticus*	FACW+	H	1
7 *Hordeum jubatum*	FAC+	H	1
8 *Melilotus alba*	FACU	H	1
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 67%

Soils:

Series/Phase: Boyce silt loam **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 4/1 sandy loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Hydrology derived from water seeping from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-8

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, east arm of drainage extending to irrigation canal

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	85*
2 *Agrostis alba*	FAC	H	25
3 *Eleocharis palustris*	OBL	H	20
4 *Carex nebrascensis*	OBL	H	15
5 *Juncus balticus*	FACW+	H	15
6 *Trifolium fragiferum*	FACU	H	5
7 *Rumex crispus*	FAC+	H	1
8 *Juncus longistylis*	FACW	H	1
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Metolius sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20 10YR 4/1 loamy sand

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** 3"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Hydrology derived from water seeping from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-9

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, east arm of drainage extending to irrigation canal, east (upslope) from plotBB-8

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	50*
2 *Medicago sativa*	UPL	H	35*
3 *Sisymbrium altissium*	UPL	H	20
4 *Chenopodium album*	FAC	H	20
5 *Cirsium vulgare*	FACU	H	5
6 *Sonchus asper*	FAC-	H	1
7			
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Courtrock gravely sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20 10YR 3/3 silt loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Plot located topographically above seeps from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Karen Swirsky and Kevin O'Hara	**Plot or Pit No.**	BB-11
Applicant/Owner:	City of Prineville	**Date:**	7/20/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Prineville Properties- south (upland) from plot BB-10 by 50 feet		
Prevailing Weather Conditions:	Sunny and hot, temperatures in mid-to-upper-90s F.		

General Site Conditions:

Undeveloped open area

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Distichils spicata*	FAC+	H	40*
2 *Desurainia richardsonii*	UPL	H	30*
3 *Lepidium perfoliatum*	FACU+	H	15
4 *Chenopodium album*	FAC	H	10
5 *Cirsium arvense*	FACU+	H	10
6 *Gutierrezia sarothrae*	UPL	S	5*
7			
8			
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10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 33%

Soils:

Series/Phase:	*Prineville sandy loam*	**Is the soil on the hydric soils list? Y/N**	No
Soil profile:	0-18" 10YR 3/3 loamy sand		

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation.				**Y/N**	No
Visual observation of soil saturation.				**Y/N**	No
	Depth to saturated soil:	>18"		**Depth to free standing water:**	>18"
***Drift lines.* Y/N**	No	***Sediment deposits.* Y/N**	No	**Drainage patterns. Y/N**	No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N** No
Is the hydric soil criterion met?	**Y/N** No
Is the specific hydrology criterion met?	**Y/N** No
Is this plant community a wetland?	**Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** BB-12

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Prineville Properties- northeast of plot BB-11 by 100 feet, by 2nd Russian olive

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Undeveloped open area

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Potentilla glandulosa*	FAC-	S	80*
2 *Juncus balticus*	FACW+	H	25*
3 *Desurainia richardsonii*	UPL	H	20*
4 *Cirsium arvense*	FACU+	H	20*
5			
6			
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9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 25%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-6" 10YR 3/2, 6-20" 10YR 3/1 with 10YR 3/3 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 10" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** No

Comments:

Faint oxidized rhizospheres present in upper soil horizon

Plot located just outside wetland limit

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** BB-13

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Prineville Properties- north of drainage swale by 25 feet

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Undeveloped open area

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	80*
2 *Cirsium arvense*	FACU+	H	50*
3 *Phalaris arundinacea*	FACW	H	35*
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 67%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 10YR 3/2 with faint 10YR 3/6 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** BB-14

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Middle of drainage swale, southwest corner of Prineville Properties

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Undeveloped open area

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Typha latifolia*	OBL	H	100*
2			
3			
4			
5			
6			
7			
8			
9			
10			

* = domir

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile:

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Swale area confined by sharp topographic break

Soils not examined due to 100% obligate vegetation and wetland hydrology confined by sharp topographic break

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	BB-15
Applicant/Owner:	City of Prineville	**Date:**	8/31/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Inside swale, 300 feet southwest of plot BB-14		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	60*
2 *Epilobium watsonii*	FACW-	H	30*
3 *Rorippa nasturtium-aquaticum*	OBL	H	10
4 *Scirpus americanus*	OBL	H	5
5 *Bidens cernua*	FACW+	H	5
6 *Veronica americana*	OBL	H	5
7 *Phalaris arundinacea*	FACW	H	2
8 *Lactuca serriola*	FACU	H	1
9 *Scirpus acutus*	OBL	H	1
10 *Eleocharis palustris*	OBL	H	1
			* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-5" 10YR 3/1, 3/2 peat; 5-20" 10YR 3/1, 3/2 sandy loam

Other hydric soil indicators:

High organic content in surface layer

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	Yes
Is the hydric soil criterion met?	**Y/N**	Yes
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	Yes

Comments:

Oxidized rhizospheres in upper soil horizon

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-16

Applicant/Owner: City of Prineville — **Date:** 8/31/94

County: Crook — **State:** Oregon

Plot or pit location: Outside swale, 50 north of plot BB-15 in topographically highr elevation

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Poa pratensis*	FAC	H	80*
2 *Trifolium fragiferum*	FACU	H	5
3 *Plantago major*	FACU+	H	5
4 *Chenopodium album*	FAC	H	2
5 *Juncus balticus*	FACW+	H	1
6 *Lepidium perfoliatum*	FACU+	H	1
7 *Hordeum jubatum*	FAC+	H	1
8 *Cirsium vulgare*	FACU	H	1
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Prineville sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-8" 10YR 3/1,3/2 loamy sand, 8-20" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: 18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

Plot is located just outside wetland limit

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-17

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: Greenhouse property, 250 feet east of plot BB-19

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron repens*	FACU	H	90*
2 *Festuca arundinacea*	FAC-	H	10
3 *Chenopodium album*	FAC	H	1
4 *Cirsium vulgare*	FACU	H	1
5 *Taraxacum officinale*	FACU	H	1
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Powder gravely loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Few, faint oxidized rhizospheres in upper soil horizon

Pasture planted to non-hydrophytic species.

Volunteer species dominated by non-hydrophytes indicating dominant upland vegetation prior to agricutural activities.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-18

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: Greenhouse property, east of greenhouse south of drainage channel

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	70*
2 *Agropyron repens*	FACU	H	20*
3 *Hordeum jubatum*	FAC+	H	5
4 *Juncus balticus*	FACW+	H	1
5 *Melilotus alba*	FACU	H	1
6			
7			
8			
9			
10			

* = domir.

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Powder sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-12" 10YR 3/2 with 10YR 3/4 mottles, 12-20" 10YR 3/1 with 10YR 3/4 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Faint oxidized rhizospheres in upper soil horizon

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	BB-19
Applicant/Owner:	City of Prineville	**Date:**	9/1/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Greenhouse property, east of greenhouse north of drainage channel		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	80*
2 *Juncus balticus*	FACW+	H	50*
3 *Hordeum jubatum*	FAC+	H	10
4 *Taraxacum officinale*	FACU	H	1
5 *Trifolium fragiferum*	FACU	H	1
6 *Melilotus officinalis*	FACU	H	1
7 *Poa pratensis*	FAC	H	1
8 *Carex nebrascensis*	OBL	H	1
9 *Rumex crispus*	FAC+	H	1
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-12" 10YR 3/2 with 10YR 3/4 mottles, 12-20" 10YR 3/1 with 10YR 3/4 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Oxidized rhizospheres in upper soil horizon

SCS data on hydric soils a secondary indicator of wetland hydrology

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-2

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, east side of drainage

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Poa pratensis*	FAC	H	95*
2 *Agropyron repens*	FACU	H	30*
3 *Cirsium vulgare*	FACU	H	10
4 *Hordeum jubatum*	FAC+	H	5
5 *Elymus triticoides*	FAC	H	5
6 *Rumex crispus*	FAC+	H	1
7 *Verbascum thapsus*	UPL	H	1
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Ayres & Ochoco sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/3 silt loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

Wetland limit along toe-of-slope

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-20

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: Greenhouse property, west of greenhouses

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Flat fill area

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Gravely fill material

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Kochia scoparia*	FAC	H	40*
2 *Chenopodium leptophyllum*	FACU	H	5
3 *Malva neglecta*	UPL	H	1
4 *Setaria glauca*	FAC	H	1
5 *Medicago sativa*	UPL	H	1
6 *Iva axillaris*	FAC	H	1
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Powder gravely loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 10YR 3/2, 3/3 gravely fill material

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

Fill material appears to be several feet deep

Fac-Neutral test supports conclusion plot area is upland

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** BB-3

Applicant/Owner: City of Prineville — **Date:** 9/2/94

County: Crook — **State:** Oregon

Plot or pit location: Hudspeth Property, west side of drainage, 1,000 feet north of plot BB-4

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open space, drainage swale below Barnes Butte Reservoir

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	70*
2 *Poa annua*	FAC	H	30*
3 *Agrostis alba*	FAC	H	20
4 *Scirpus americanus*	OBL	H	10
5 *Poa pratensis*	FAC	H	10
6 *Hordeum jubatum*	FAC+	H	1
7			
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 4/1 sandy loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 6" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Hydrology derived from water seeping from Barnes Butte Reservoir

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** CR-1

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy property, pasture near the channel (below)

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	85*
2 *Hordeum jubatum*	FAC+	H	45*
3 *Trifolium repens*	FAC	H	25
4 *Rumex crispus*	FAC+	H	20
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-12" 10YR 3/1 with 10YR 3/4 mottles, 12-20" 10YR 4/3 with faint 10YR 3/1 mottles.

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: Surface — **Depth to free standing water:** 14"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No*

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

* Pasture planted to non-hydrophytic species.

Volunteer species dominated by hydrophytes indicating dominant hydrophytic vegetation prior to agricutural activities.

Wetland line ~100 feet west of channel.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-10

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property 40' east of plot CR-9

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Poa pratensis*	FAC	H	85*
2 *Festuca arundinacea*	FAC-	H	40*
3 *Taraxacum officinale*	FACU	H	5
4 *Trifolium repens*	FAC	H	5
5			
6			
7			
8			
9			
10			

* = dom.

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Forester sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Karen Swirsky and Kevin O'Hara	**Plot or Pit No.**	CR-19
Applicant/Owner:	City of Prineville	**Date:**	7/19/94
County:	Crook	**State:**	Oregon
Plot or pit location:	East bank of Crooked River, north of golf course		
Prevailing Weather Conditions:	Sunny and hot, temperatures in mid-90s F.		

General Site Conditions:

Riparian corridor of Crooked River

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	50*
2 *Melilotus alba*	FACU	H	50*
3 *Epilobium watsonii*	FACW-	H	20
4 *Conium maculatum*	FACW-	H	15
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase:	*Powder silt loam*	***Is the soil on the hydric soils list?*** **Y/N**	No
Soil profile:	0-18" 10YR 4/1 sand with 10YR 4/6 mottles		

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation.				**Y/N**	No
Visual observation of soil saturation.				**Y/N**	Yes
	Depth to saturated soil:	7"		**Depth to free standing water:**	>18"
Drift lines. Y/N	Yes	**Sediment deposits. Y/N**	No	**Drainage patterns. Y/N**	No*

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	No
Is the hydric soil criterion met?	**Y/N**	Yes
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	Yes

Comments:

* Wetland is long and narrow with plot area extending beyond wetland. Melilotus mainly outside wetland.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** CR-2

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy property, pasture west and below irrigation canal

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Trifolium repens*	FAC	H	70*
2 *Potentilla anserina*	OBL	H	40*
3 *Eleocharis palustris*	OBL	H	30
4 *Alopecurus pratensis*	FACW	H	20
5 *Hordeum jubatum*	FAC+	H	10
6 *Rumex crispus*	FAC+	H	10
7			
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Stearns-Crooked Complex — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 4/1 loamy sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: Surface — **Depth to free standing water:** 6"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

Hydrology derived from water seeping from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-11

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property 100' east of plot CR-10

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron repens*	FACU	H	50*
2 *Festuca arundinacea*	FAC-	H	40*
3 *Chenopodium album*	FAC	H	1
4 *Taraxacum officinale*	FACU	H	1
5 *Malva neglecta*	UPL	H	1
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Forester sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: 18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-12

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property 150' east of plot CR-11

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Eleocharis palustris*	OBL	H	60*
2 *Festuca arundinacea*	FAC-	H	20*
3 *Hordeum jubatum*	FAC+	H	10
4 *Agropyron smithii*	FACU	H	1
5 *Ranunculus pedatifidus*	FAC	H	1
6 *Rumex crispus*	FAC+	H	1
7 *Lemna minor*	OBL	H	1
8 *Rumex crispus*	FAC+	H	1
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 3/1 sandy loam with 10YR 3/2 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No*

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

* Wetland confined to channel. Festuca and Agropyron outside channel.

Hydrology derived from water seeping from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt | **Plot or Pit No.** CR-13

Applicant/Owner: City of Prineville | **Date:** 9/14/94

County: Crook | **State:** Oregon

Plot or pit location: Kennedy Property 60' east of plot CR-12

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Distichils spicata*	FAC+	H	90*
2 *Agropyron smithii*	FACU	H	40*
3 *Poa annua*	FAC	H	1
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Stearns silt loam | **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: 10" | **Depth to free standing water:** >18"

Drift lines. Y/N No | **Sediment deposits. Y/N** No | **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-14

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property 200' north of transect in agricultural field

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron smithii*	FACU	H	95*
2			
3			
4			
5			
6			
7			
8			
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Forester sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/2 silt loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-15

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: *Kennedy Property 100' east of plot CR-15 in drainage channel*

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Drainage channel through grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Eleocharis palustris*	OBL	H	90*
2 *Agropyron smithii*	FACU	H	10
3 *Hordeum jubatum*	FAC+	H	5
4 *Lemna minor*	OBL	H	5
5 *Poa annua*	FAC	H	5
6 *Rumex crispus*	FAC+	H	1
7 *Scirpus acutus*	OBL	H	1
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 4/1

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Hydrology derived from water seeping from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** CR-16

Applicant/Owner: City of Prineville — **Date:** 8/31/94

County: Crook — **State:** Oregon

Plot or pit location: North end of Kennedy property, inside drainage channel

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Juncus balticus*	FACW+	H	20*
2 *Juncus longistylis*	FACW	H	20*
3 *Agropyron repens*	FACU	H	10
4 *Agrostis exarata*	FACW	H	10
5 *Scirpus americanus*	OBL	H	5
6 *Lepidium perfoliatum*	FACU+	H	1
7 *Rumex crispus*	FAC+	H	1
8 *Potentilla anserina*	OBL	H	1
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 3/1 clay loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** Yes — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** CR-17

Applicant/Owner: City of Prineville — **Date:** 8/31/94

County: Crook — **State:** Oregon

Plot or pit location: North end of Kennedy property, outside drainage channel

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Sarcobatus vermiculatus*	FACU+	S	10*
2 *Chrysothamnus nauseosus*	UPL	H	5*
3 *Agropyron intermedium*	UPL	H	5*
4 *Lepidium perfoliatum*	FACU+	H	1
5 *Taraxacum officinale*	FACU	H	1
6 *Sitanion hystrix*	FACU-	H	1
7 *Scirpus americanus*	OBL	H	1
8 *Chenopodium album*	FAC	H	1
9 *Kochia scoparia*	FAC	H	1
10 *Suaeda occidentalis*	FACW	H	1
			* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Stearns silt loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/2 clay loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** CR-18

Applicant/Owner: City of Prineville — **Date:** 7/19/94

County: Crook — **State:** Oregon

Plot or pit location: East of Crooked River, south of county park

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Riparian corridor of Crooked River

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Salix exigua*	OBL	S	50*
2 *Salix lasiandra*	FACW+	S	20*
3 *Cirsium arvense*	FACU+	H	70*
4 *Phalaris arundinacea*	FACW	H	70*
5 *Lepidium campestre*	UPL	H	30
6 *Dipsacus sylvestris*	FAC	H	20
7			
8			
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 75%

Soils:

Series/Phase: Powder sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara | **Plot or Pit No.** CR-20

Applicant/Owner: City of Prineville | **Date:** 7/19/94

County: Crook | **State:** Oregon

Plot or pit location: Side channel of Crooked River, east of main channel, north of golf course

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Riparian corridor of Crooked River

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Scirpus acutus*	OBL	H	70*
2 *Solidago canadensis*	FACU	H	30*
3 *Conium maculatum*	FACW-	H	20
4 *Carex rostrata*	OBL	H	20
5 *Scirpus americanus*	OBL	H	20
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Riverwash | **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" N3/ sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: *Surface* | **Depth to free standing water:** 6"

Drift lines. Y/N Yes | **Sediment deposits. Y/N** No | **Drainage patterns. Y/N** No*

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

* Wetland is long and narrow with plot area extending beyond wetland. Solidago mainly outside wetland.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** CR-21

Applicant/Owner: City of Prineville — **Date:** 7/19/94

County: Crook — **State:** Oregon

Plot or pit location: Upslope (east) of plot CR-20 by 30 feet

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Riparian corridor of Crooked River

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis stolonifera*	FAC	H	70*
2 *Dipsacus sylvestris*	FAC	H	50*
3 *Puccinellia sp.*	OBL	H	30
4 *Cirsium arvense*	FACU+	H	20
5 *Solidago canadensis*	FACU	H	20
6 *Rumex crispus*	FAC+	H	10
7 *Carex rostrata*	OBL	H	10
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Powder sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-3

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property, south of CR-4

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Sarcobatus vermiculatus*	FACU+	S	15*
2 *Distichils spicata*	FAC+	H	75*
3 *Bassia hyssopfolia*	FACW	H	10
4 *Cirsium arvense*	FACU+	H	1
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Powder sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/3

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-4

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property, south of drainage channel

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Trifolium fragiferum*	FACU	H	40*
2 *Poa pratensis*	FAC	H	40*
3 *Juncus bufonius*	FACW	H	20
4 *Hordeum jubatum*	FAC+	H	20
5			
6			
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 3/2 with 10YR 4/2 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: 8" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No*

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

* Plant community dominanted by planted pasture forbs. Volunteer species all hydrophytic.

Hydrology derived from water seeping from irrigation canal

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** CR-5

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy property, east of constructed pond

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Scirpus americanus*	OBL	H	100*
2 *Poa sp.*	FAC	H	10
3			
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 5/1 sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** CR-6

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy property, east of constructed pond, 100 feet east of plot CR-5

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Sarcobatus vermiculatus*	FACU+	S	20*
2 *Distichils spicata*	FAC+	H	100*
3			
4			
5			
6			
7			
8			
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Stearns-Crooked Complex — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 4/3 sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-7

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property outside drainage channel, 50' west of plot CR-16

Prevailing Weather Conditions: *Sunny and warm, temperature 80F*

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Sarcobatus vermiculatus*	FACU+	S	40*
2 *Distichils spicata*	FAC+	H	40*
3 *Bassia hyssopfolia*	FACW	H	5
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Stearns silt loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/3 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Soils moist but not saturated

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-8

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property inside drainage channel, south of Fairgrounds

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Drainage channel through grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Eleocharis palustris*	OBL	H	85*
2 *Poa pratensis*	FAC	H	30*
3 *Scirpus americanus*	OBL	H	20
4 *Trifolium repens*	FAC	H	20
5 *Lemna minor*	OBL	H	15
6 *Veronica americana*	OBL	H	5
7 *Distichils spicata*	FAC+	H	5
8 *Taraxacum officinale*	FACU	H	1
9 *Rumex crispus*	FAC+	H	1
10 *Ranunculus pedatifidus*	FAC	H	1
			* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 4/2 sandy loam with 10YR 5/2 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** 10"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** CR-9

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy Property at west end of 5-plot west-to-east transect 700' south of plot CR-7

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Grazed agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	20*
2 *Taraxacum officinale*	FACU	H	20*
3 *Poa pratensis*	FAC	H	20*
4 *Trifolium repens*	FAC	H	5
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 33%

Soils:

Series/Phase: Powder sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 4/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** IP-1

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Near house with four trees, grazed agricultural field

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Cleared field.

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron intermedium*	UPL	H	40*
2 *Distichils spicata*	FAC+	H	20*
3 *Lepidium latifolium*	FAC	H	10
4			
5			
6			
7			
8			
9			
10			

* = domir

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Powder silt loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 3/2

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** IP-2

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Consolidated Pine property, east of plot IP-3 in grazed field

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Open area of Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Distichils spicata*	FAC+	H	90*
2			
3			
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 3/1

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 10" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** Yes — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Bare areas appear to be ponded early in growing season.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** IP-3

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Consolidated Pine property, island inside cattails

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Open area of Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Scirpus americanus*	OBL	H	90*
2 *Hordeum jubatum*	FAC+	H	50*
3 *Trifolium repens*	FAC	H	50*
4 *Carex rostrata*	OBL	H	20
5			
6			
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 3/1

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 8" — **Depth to free standing water:** 8"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** IP-4

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: Consolidated Pine property, south of buildings

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open area in Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Lepidium latifolium*	FAC	H	100*
2 *Scirpus americanus*	OBL	H	5
3 *Typha latifolia*	OBL	H	1
4 *Rumex crispus*	FAC+	H	1
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" 10YR 3/1 silt loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** 4"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** IP-5

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Consolidated Pine property, west of buildings.

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Open area of Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Typha latifolia*	OBL	H	80*
2 *Conium maculatum*	FACW-	H	40*
3 *Mimulus guttatus*	OBL	H	10
4 *Cirsium vulgare*	FACU	H	10
5 *Veronica americana*	OBL	H	10
6			
7			
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 3/1 mucky loam

Other hydric soil indicators:

High organic matter content

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** IP-6

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: Consolidated Pine property, low spot in filled roadway area, adjacent to cyclone

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Parking area of Consolidated Pine

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Old fill

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Distichils spicata*	FAC+	H	100*
2 *Scirpus americanus*	OBL	H	10
3			
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" compacted fill material

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

Small low area in fill where water collects and ponds.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** IP-7

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: City property at Industrial Park, north of Industrial Park Road terminus

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open area in Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Plot located 10 feet from drainage ditch, fill has been placed west of ditch

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Thlaspi arvense*	NI	H	95*
2 *Dipsacus sylvestris*	FAC	H	5
3 *Chenopodium album*	FAC	H	1
4 *Cirsium arvense*	FACU+	H	1
5 *Epilobium watsonii*	FACW-	H	1
6			
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? inconclusive

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-6" 10YR 3/2 silt loam, 6-20" 10YR 5/1 clay loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 6" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** inconclusive

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Water present in ditch at 15"

Wetland determination based on soils and hydrology due to dominance of NI species, and dominance of hydrophytic vegetation on adjacent property; Hordeum jubatum, Juncus balticus, Carex nebraskensis, Scirpus americanus.

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	IP-8
Applicant/Owner:	City of Prineville	**Date:**	9/1/94
County:	Crook	**State:**	Oregon
Plot or pit location:	City property at Industrial Park, north of Industrial Park Road terminus		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Open area in Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Plot located 20 feet from drainage ditch, fill has been placed west of ditch

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Lepidium perfoliatum*	FACU+	H	20*
2 *Thlaspi arvense*	NI	H	20*
3 *Cirsium arvense*	FACU+	H	20*
4 *Descurainia pinnata*	UPL	H	5
5 *Chenopodium album*	FAC	H	5
6 *Cirsium vulgare*	FACU	H	5
7 *Sisymbrium altissium*	UPL	H	1
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Boyce silt loam **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-6" 10YR 3/2 silt loam, 6-20" 10YR 3/1 clay loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 6" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	No*
Is the hydric soil criterion met?	**Y/N**	Yes
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	Yes

Comments:

* Area has been disturbed, likely by scraping vegetation and soil surface layer, resulting in dominance by weedy species.

Adjacent undisturbed property supports dominance of hydrophytic species: Hordeum jubatum,

Juncus balticus, Carex nebraskensis, Scirpus americanus.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** IP-9

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: City property at Industrial Park, west of Industrial Park Road terminus

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Open area in Industrial Park

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None at plot site, but plot located immediately north of recent fill

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron intermedium*	UPL	H	30*
2 *Distichils spicata*	FAC+	H	25*
3 *Agrostis exarata*	FACW	H	10*
4 *Lepidium perfoliatum*	FACU+	H	1
5 *Bromus tectorum*	UPL	H	1
6 *Kochia scoparia*	FAC	H	1
7 *Atriplex rosea*	UPL	H	1
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 67%

Soils:

Series/Phase: Powder sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/3

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-1

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Stearns Land Co., agricultural field east side of town, 30 feet north of Ochoco Creek

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Agricultural field, Ochoco Creek has been dredge in past and spoils piled alongside creek.

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Artemisia tridentata*	UPL	S	20*
2 *Lolium perenne*	FACU	H	100*
3 *Phalaris arundinacea*	FACW	H	20
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Powder gravely loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 3/1, 3/2 gravely sand dredge material form creek

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-10

Applicant/Owner: City of Prineville — **Date:** 7/19/94

County: Crook — **State:** Oregon

Plot or pit location: Across form Fleigel Trucking in relict channel adjacent to Ochco Creek

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Cleared field.

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Lolium perenne*	FACU	H	80*
2 *Phalaris arundinacea*	FACW	H	50*
3 *Rumex crispus*	FAC+	H	20
4 *Lomatium sp.*	unknown	H	10
5			
6			
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Powder fine sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-8" 10YR 3/2, 8-20" 10YR 3/1

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Relict channel of Ochoco Creek. Hydrology no longer present.

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Karen Swirsky and Kevin O'Hara	**Plot or Pit No.**	OC-11
Applicant/Owner:	City of Prineville	**Date:**	7/20/94
County:	Crook	**State:**	Oregon
Plot or pit location:	City owned property south of plot OC-12 by 100 feet		
Prevailing Weather Conditions:	Sunny and hot, temperatures in mid-to-upper-90s F.		

General Site Conditions:

Riparian corridor of Ochoco Creek

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Fill area to east, but plot area in undisturbed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Phalaris arundinacea*	FACW	H	100*
2			
3			
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Riverwash

Is the soil on the hydric soils list? Y/N No

Soil profile: 0-18" 10YR 4/2 sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	Yes
Is the hydric soil criterion met?	**Y/N**	No
Is the specific hydrology criterion met?	**Y/N**	No
Is this plant community a wetland?	**Y/N**	No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-12

Applicant/Owner: City of Prineville — **Date:** 7/20/94

County: Crook — **State:** Oregon

Plot or pit location: City owned property along Ochoco Creek, south of Industrial Park

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-to-upper-90s F.

General Site Conditions:

Riparian corridor of Ochoco Creek

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Fill area to east, but plot area in undisturbed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Salix exigua*	OBL	S	10*
2 *Phalaris arundinacea*	FACW	H	80*
3 *Unidentified herb 1*	Unknown	H	30*
4			
5			
6			
7			
8			
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 67-100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-7" 10YR 3/2 clay loam, 7-20" 10YR 2/1 clay loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 7" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** Yes — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Wetland located between fill and berm created by dredge material.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt | **Plot or Pit No.** OC-13

Applicant/Owner: City of Prineville | **Date:** 9/1/94

County: Crook | **State:** Oregon

Plot or pit location: Green Acres Mobile Home lot, Ochoco Creek perched floodplain bench

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Mowed lawn

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Planted lawn, mowing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Ribes cerum*	NI	S	20*
2 *Rosa gymnocarpa*	FACU	S	5*
3 *Agropyron repens*	FACU	H	80*
4 *Phalaris arundinacea*	FACW	H	20
5 *Cirsium arvense*	FACU+	H	10
6 *Medicago sativa*	UPL	H	1
7 *Lactuca serriola*	FACU	H	1
8 *Machaeranthera canescens*	UPL	H	1
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Powder silt loam | **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/1, 3/2 silt loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" | **Depth to free standing water:** >18"

Drift lines. Y/N No | **Sediment deposits. Y/N** No | **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Species list from adajacent unmaintained field

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	OC-14
Applicant/Owner:	City of Prineville	**Date:**	9/1/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Green Acres Mobile Home lot, Ochoco Creek floodplain bench		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Mowed lawn

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Planted lawn, mowing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Phalaris arundinacea*	FACW	H	100*
2 *Typha latifolia*	OBL	H	10
3			
4			
5			
6			
7			
8			
9			
10			

* = dominar.

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase:	Boyce silt loam	**Is the soil on the hydric soils list? Y/N**	Yes
Soil profile:	0-20" 10YR 3/1 with faint mottles		

Other hydric soil indicators:

Hydrology:

Visual observation of inundation.				**Y/N**	No
Visual observation of soil saturation.				**Y/N**	Yes
	Depth to saturated soil:	4"		**Depth to free standing water:**	12"
Drift lines. Y/N	No	**Sediment deposits. Y/N**	No	**Drainage patterns. Y/N**	No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	Yes*
Is the hydric soil criterion met?	**Y/N**	Yes
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	Yes

Comments:

Species list from adajacent unmaintained field

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Karen Swirsky and Kevin O'Hara	**Plot or Pit No.**	OC-2
Applicant/Owner:	City of Prineville	**Date:**	7/21/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Stearns Land Co., agricultural field east side of town, 200 feet west of plot OC-1.		
Prevailing Weather Conditions:	Sunny and hot, temperatures 100 F.		

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Agricultural field, Ochoco Creek has been dredge in past and spoils piled alongside creek.

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Salix exigua*	OBL	S	100*
2 *Rosa gymnocarpa*	FACU	S	10
3 *Phalaris arundinacea*	FACW	H	50*
4 *Typha latifolia*	OBL	H	25*
5 *Epilobium angustifolium*	FACU+	H	25*
6 *Brassica campestris*	UPL	H	20
7 *Rumex crispus*	FAC+	H	10
8 *Cirsium arvense*	FACU+	H	10
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 75%

Soils:

Series/Phase: Powder gravely loam **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-9" 10YR 3/1 gravely sand, 9-18" 10YR 3/1 loamy sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 10" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Oxidized rhizospheres present in upper soil horizon

Apparent relict channel of Ochoco Creek

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-3

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Stearns Land Co., agricultural field east side of town, 200 feet west of plot OC-2.

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Agricultural field, Ochoco Creek has been dredge in past and spoils piled alongside creek.

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Polypogon monspeliensis*	FACW+	H	20*
2 *Scirpus americanus*	OBL	H	20*
3 *Eleocharis palustris*	OBL	H	10
4 *Polygonum persicaria*	FACW	H	10
5 *Myosotis laxa*	OBL	H	5
6 *Lactuca serriola*	FACU	H	1
7 *Mimulus guttatus*	OBL	H	1
8			
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 10YR 3/1 very hard and gravely

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** >6"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** OC-4

Applicant/Owner: City of Prineville — **Date:** 8/31/94

County: Crook — **State:** Oregon

Plot or pit location: Ochoco Lumber east of dam

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Log Yard

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Log yard, with wood debris fill

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Azolla mexicana*	OBL	H	70*
2 *Phalaris arundinacea*	FACW	H	50*
3 *Typha latifolia*	OBL	H	20
4 *Scirpus acutus*	OBL	H	5
5 *Bidens cernua*	FACW+	H	1
6 *Epilobium watsonii*	FACW-	H	1
7 *Melilotus alba*	FACU	H	1
8 *Melilotus officinalis*	FACU	H	1
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam, ponded — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-20" N2.5/ silt

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** Yes — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** OC-5

Applicant/Owner: City of Prineville — **Date:** 8/31/94

County: Crook — **State:** Oregon

Plot or pit location: Ochoco Lumber east of dam, upland from plot OC-4

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Log Yard

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Log yard, with wood debris fill

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Bromus tectorum*	UPL	H	15*
2 *Epilobium watsonii*	FACW-	H	15*
3 *Lactuca serriola*	FACU	H	5
4 *Chrysothamnus nauseosus*	UPL	H	5
5 *Melilotus alba*	FACU	H	1
6 *Kochia scoparia*	FAC	H	1
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Powder silt loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" wood waste fill material

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Wood waste fill material is at least 3 feet thick

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-6

Applicant/Owner: City of Prineville — **Date:** 7/19/94

County: Crook — **State:** Oregon

Plot or pit location: Dodson Road, 20 feet west of Ochoco Creek on Crook County owned property

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Cleared field.

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Tree and shrub layers have been removed.

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Lactuca serriola*	FACU	H	30*
2 *Bromus tectorum*	UPL	H	20*
3 *Chenopodium album*	FAC	H	15
4 *Centaurea repens*	UPL	H	10
5 *Lepidium perfoliatum*	FACU+	H	5
6 *Erodium cicutarium*	UPL	H	1
7 *Draba verna*	UPL	H	1
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Powder silt loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 3/2 sandy loam with no mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

Ochoco Creek is deeply incised in this area.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-7

Applicant/Owner: City of Prineville — **Date:** 7/19/94

County: Crook — **State:** Oregon

Plot or pit location: At Fleigel Trucking 15 east of Ochoco Creek

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Cleared field.

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Phalaris arundinacea*	FACW	H	100*
2 *Brassica campestris*	UPL	H	25
3 *Conium maculatum*	FACW-	H	15
4 *Dipsacus sylvestris*	FAC	H	15
5 *Lactuca serriola*	FACU	H	10
6 *Epilobium watsonii*	FACW-	H	5
7			
8			
9			
10			

* = domi

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Powder fine sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-6" 10YR 3/2 loamy sand, 6-20" 10YR 3/1 silt loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 8" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** OC-8

Applicant/Owner: City of Prineville — **Date:** 7/19/94

County: Crook — **State:** Oregon

Plot or pit location: At Fleigel Trucking 35 east of Ochoco Creek

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Cleared field.

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Fill area

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Phalaris arundinacea*	FACW	H	100*
2 *Brassica campestris*	UPL	H	10
3 *Plantago lanceolata*	FAC	H	5
4 *Cirsium vulgare*	FACU	H	1
5 *Melilotus alba*	FACU	H	1
6 *Epilobium watsonii*	FACW-	H	1
7 *Potentilla glandulosa*	FAC-	S	1
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Powder fine sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-4" gravel fill material, 4-18" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara | **Plot or Pit No.** OC-9

Applicant/Owner: City of Prineville | **Date:** 7/19/94

County: Crook | **State:** Oregon

Plot or pit location: Upstream from plot OC-7 by 500 feet

Prevailing Weather Conditions: Sunny and hot, temperatures in mid-90s F.

General Site Conditions:

Cleared field.

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Phalaris arundinacea*	FACW	H	100*
2 *Solanum dulcamara*	FAC+	H	10
3			
4			
5			
6			
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Powder fine sandy loam | **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-18" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" | **Depth to free standing water:** >18"

Drift lines. Y/N No | **Sediment deposits. Y/N** No | **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** RG-1

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Rodin Property, inside north swale northeast of reservoir

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Drainage channel in agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Carex nebrascensis*	OBL	H	50*
2 *Trifolium repens*	FAC	H	40*
3 *Poa pratensis*	FAC	H	15
4 *Phleum pratense*	FAC-	H	5
5 *Agrostis exarata*	FACW	H	5
6 *Carex sp.*	FACW	H	1
7 *Rumex crispus*	FAC+	H	1
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce silt loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 10YR 3/1 silty clay with 10YR 4/3 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** RG-10

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: 400 feet downslope from Ryegrass Canal

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Actively grazed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	60*
2 *Trifolium hybridum*	FACU+	H	20
3 *Poa pratensis*	FAC	H	15
4 *Taraxacum officinale*	FACU	H	10
5 *Cirsium vulgare*	FACU	H	5
6 *Rumex crispus*	FAC+	H	1
7 *Medicago sativa*	UPL	H	1
8			
9			
10			

* = domir

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Crooked sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-8" 10YR 3/2 sandy loam, 8-20" 10YR 3/3 sandy loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: 15" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

Hydrology derived from water seeping from irrigation canal. Depth to saturation increases as distance from canal increases

Pasture planted to non-hydrophytic species. Volunteer species dominated by non-hydrophytes indicating dominant upland

vegetation prior to agricutural activities.

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	RG-11
Applicant/Owner:	City of Prineville	**Date:**	9/1/94
County:	Crook	**State:**	Oregon
Plot or pit location:	20 feet west of irrigation canal, topographically lower than canal elevation		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Actively grazed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	80*
2 *Taraxacum officinale*	FACU	H	10
3 *Rumex crispus*	FAC+	H	5
4 *Plantago major*	FACU+	H	3
5 *Hordeum jubatum*	FAC+	H	1
6 *Trifolium fragiferum*	FACU	H	1
7 *Phleum pratense*	FAC-	H	1
8 *Trifolium hybridum*	FACU+	H	1
9 *Poa annua*	FAC	H	1
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase:	Crooked sandy loam	**Is the soil on the hydric soils list? Y/N**	No
Soil profile:	0-20" 10YR 3/2 sandy loam		

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation.				**Y/N**	No
Visual observation of soil saturation.				**Y/N**	Yes
	Depth to saturated soil:	10"		**Depth to free standing water:**	>18"
Drift lines. Y/N	No	**Sediment deposits. Y/N**	No	**Drainage patterns. Y/N**	No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	No
Is the hydric soil criterion met?	**Y/N**	No
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	No

Comments:

Hydrology derived from water seeping from irrigation canal. As distance from Ryegrass Canal increases, depth to positive wetland hydrology increases.

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** RG-12

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: 50 feet west of irrigation canal, topographically lower than canal elevation

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Actively grazed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	70*
2 *Poa pratensis*	FAC	H	20
3 *Trifolium hybridum*	FACU+	H	15
4 *Trifolium fragiferum*	FACU	H	1
5 *Rumex crispus*	FAC+	H	1
6 *Dactylis glomerata*	FACU	H	1
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Crooked sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 7.5YR 3/3 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 15" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

Hydrology derived from water seeping from Ryegrass Canal

Depth to saturation increases as distance from canal increases

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** RG-13

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: Low spot in field 100 feet east of road

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Actively grazed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Malva neglecta*	UPL	H	80*
2 *Kochia scoparia*	FAC	H	10
3 *Erodium cicutarium*	UPL	H	10
4 *Polygonum aviculare*	FACW-	H	10
5 *Agropyron intermedium*	UPL	H	1
6 *Hordeum jubatum*	FAC+	H	1
7 *Melilotus officinalis*	FACU	H	1
8 *Atriplex rosea*	UPL	H	1
9 *Bromus inermis*	UPL	H	1
10 *Descurainia pinnata*	UPL	H	1

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Powder silt loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-20" 10YR 3/4 silt loam

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Kevin O'Hara and Caroline Lindstedt — **Plot or Pit No.** RG-14

Applicant/Owner: City of Prineville — **Date:** 9/1/94

County: Crook — **State:** Oregon

Plot or pit location: Low spot in southeast corner of pasture

Prevailing Weather Conditions: Sunny and warm, temperature 80 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Actively grazed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	90*
2 *Agropyron repens*	FACU	H	10
3 *Poa pratensis*	FAC	H	10
4 *Taraxacum officinale*	FACU	H	5
5 *Trifolium fragiferum*	FACU	H	1
6 *Trifolium hybridum*	FACU+	H	1
7 *Erigeron filifolius*	UPL	H	1
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Crooked sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-10" 10YR 3/2 sandy loam, 10-20" 10YR 3/3 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No

Is the hydric soil criterion met? **Y/N** No

Is the specific hydrology criterion met? **Y/N** No

Is this plant community a wetland? **Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** RG-2

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Rodin Property, south of plot RG-1, outside of swale

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Artemisia tridentata*	UPL	S	20*
2 *Poa pratensis*	FAC	H	40*
3 *Achillea millefolium*	FACU	H	10
4 *Agropyron cristatum*	UPL	H	10
5 *Melilotus officinalis*	FACU	H	5
6 *Plantago lanceolata*	FAC	H	5
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 50%

Soils:

Series/Phase: Ayres and Ochoco gravely sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 10YR 3/2

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** RG-3

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Rodin Property, inside south swale, east of reservoir

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Drainage channel in agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agrostis exarata*	FACW	H	70*
2 *Typha latifolia*	OBL	H	40*
3 *Scirpus americanus*	OBL	H	20
4 *Veronica americana*	OBL	H	5
5 *Rumex crispus*	FAC+	H	1
6 *Epilobium watsonii*	FACW-	H	1
7 *Mimulus guttatus*	OBL	H	1
8			
9			
10			

* = dominai

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 7.5YR 2/0 silty/sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N Yes

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N Yes

Is the hydric soil criterion met? Y/N Yes

Is the specific hydrology criterion met? Y/N Yes

Is this plant community a wetland? Y/N Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Caroline Lindstedt	**Plot or Pit No.**	RG-4
Applicant/Owner:	City of Prineville	**Date:**	9/14/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Rodin Property, south of south swale, east of reservoir		
Prevailing Weather Conditions:	Sunny and warm, temperature 80F		

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Artemisia tridentata*	UPL	S	10*
2 *Bromus tectorum*	UPL	H	40*
3 *Poa pratensis*	FAC	H	15*
4 *Chrysothamnus nauseosus*	UPL	H	10
5 *Chrysothamnus viscidiflorus*	UPL	H	10
6 *Sitanion hystrix*	FACU-	H	5
7 *Melilotus officinalis*	FACU	H	1
8 *Epilobium minutum*	UPL	H	1
9 *Tragopogon dublin*	UPL	H	1
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 33%

Soils:

Series/Phase: Ayres and Ochoco gravely sandy loam **Is the soil on the hydric soils list? Y/N** No

Soil profile: 10YR 3/2

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** No

Depth to saturated soil: >18" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N** No
Is the hydric soil criterion met?	**Y/N** No
Is the specific hydrology criterion met?	**Y/N** No
Is this plant community a wetland?	**Y/N** No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Caroline Lindstedt	Plot or Pit No.	RG-5
Applicant/Owner:	City of Prineville	Date:	9/14/94
County:	Crook	State:	Oregon
Plot or pit location:	Rodin Property, below reservoir, inside drainage swale		
Prevailing Weather Conditions:	Sunny and warm, temperature 80F		
General Site Conditions:			

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Scirpus americanus*	OBL	H	40*
2 *Agrostis exarata*	FACW	H	40*
3 *Typha latifolia*	OBL	H	10
4 *Poa pratensis*	FAC	H	10
5 *Juncus balticus*	FACW+	H	5
6 *Trifolium repens*	FAC	H	5
7 *Rorippa nasturtium-aquaticum*	OBL	H	5
8 *Veronica americana*	OBL	H	5
9 *Rumex crispus*	FAC+	H	1
10 *Mimulus guttatus*	OBL	H	1
			* = domin.

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase:	Boyce loam	**Is the soil on the hydric soils list? Y/N**	Yes
Soil profile:	10YR 3/1 sandy loam		

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation.				**Y/N**	Yes
Visual observation of soil saturation.				**Y/N**	Yes
	Depth to saturated soil:	Surface		**Depth to free standing water:**	Surface
Drift lines. Y/N	No	**Sediment deposits. Y/N**	No	**Drainage patterns. Y/N**	Yes

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met?	**Y/N**	Yes
Is the hydric soil criterion met?	**Y/N**	Yes
Is the specific hydrology criterion met?	**Y/N**	Yes
Is this plant community a wetland?	**Y/N**	Yes

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Caroline Lindstedt — **Plot or Pit No.** RG-6

Applicant/Owner: City of Prineville — **Date:** 9/14/94

County: Crook — **State:** Oregon

Plot or pit location: Rodin Property, below reservoir north of swale

Prevailing Weather Conditions: Sunny and warm, temperature 80F

General Site Conditions:

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron intermedium*	UPL	H	60*
2 *Chrysothamnus viscidiflorus*	UPL	H	20*
3 *Medicago sativa*	UPL	H	5
4 *Erodium cicutarium*	UPL	H	5
5 *Verbascum thapsis*	UPL	H	1
6 *Marrubium vulgare*	FACU+	H	1
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Ayres and Ochoco gravely sandy loam — **Is the soil on the hydric soils list? Y/N** No

Soil profile: 10YR 3/2 loamy sand

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N No

Depth to saturated soil: >18" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** RG-7

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Barrs property west of Ryegrass Canal

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Agropyron repens*	FACU	H	100*
2 *Taraxacum officinale*	FACU	H	20
3			
4			
5			
6			
7			
8			
9			
10			

* = domina

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Prineville gravely sandy loam — **Is the soil on the hydric soils list? Y/N**

Soil profile: 0-18" 10YR 3/2 sandy loam

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. Y/N No

Visual observation of soil saturation. Y/N Yes

Depth to saturated soil: 16" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? Y/N No

Is the hydric soil criterion met? Y/N No

Is the specific hydrology criterion met? Y/N No

Is this plant community a wetland? Y/N No

Comments:

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Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** RG-8

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Barrs property west of Ryegrass Canal, north of plot RG-7 by 150 feet

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

None

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Lolium perenne*	FACU	H	50*
2 *Scirpus americanus*	OBL	H	40*
3 *Festuca arundinacea*	FAC-	H	35*
4 *Hordeum jubatum*	FAC+	H	25
5 *Agrostis tenuis*	FAC	H	10
6 *Lactuca serriola*	FACU	H	5
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 33%

Soils:

Series/Phase: Boyce loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 3/1 with 10YR 3/6 mottles

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 9" — **Depth to free standing water:** >18"

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes*

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

* Pasture planted to non-hydrophytic species.

Volunteer species dominated by hydrophytes indicating dominant hydrophytic vegetation prior to agricutural activities.

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Wetland Routine Onsite Determination Data Sheet

Project Location:	City of Prineville		
Field Investigator(s):	Kevin O'Hara and Caroline Lindstedt	**Plot or Pit No.**	RG-9
Applicant/Owner:	City of Prineville	**Date:**	9/1/94
County:	Crook	**State:**	Oregon
Plot or pit location:	Upslope from plot RG-12 to pasture below Ryegrass Canal, plot located 30 feet downslope from canal		
Prevailing Weather Conditions:	Sunny and warm, temperature 80 F.		

General Site Conditions:

Pasture land

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Actively grazed

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Festuca arundinacea*	FAC-	H	70*
2 *Hordeum jubatum*	FAC+	H	10
3 *Scirpus americanus*	OBL	H	10
4 *Juncus balticus*	FACW+	H	10
5 *Poa annua*	FAC	H	10
6 *Trifolium fragiferum*	FACU	H	5
7 *Poa pratensis*	FAC	H	1
8			
9			
10			

* = domin

Percent of dominant species that are OBL, FACW, and/or FAC? 0%

Soils:

Series/Phase: Crooked sandy loam **Is the soil on the hydric soils list? Y/N** No

Soil profile: 0-7" 10YR 4/1 sandy loam, 7-20" 10YR 4/1 loamy sand

Other hydric soil indicators:

Hydrology:

Visual observation of inundation. **Y/N** No

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: 7" **Depth to free standing water:** >18"

Drift lines. Y/N No **Sediment deposits. Y/N** No **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** No*

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

Plant community dominanted by planted pasture grass. Volunteer species all hydrophytic.

Hydrology derived from water seeping from Ryegrass Canal

David Evans and Associates, Inc.
2828 SW Corbett Avenue
Portland, Oregon 97201
(503) 223-6663 FAX (503) 223-2701

Wetland Routine Onsite Determination Data Sheet

Project Location: City of Prineville

Field Investigator(s): Karen Swirsky and Kevin O'Hara — **Plot or Pit No.** zCR-7

Applicant/Owner: City of Prineville — **Date:** 7/21/94

County: Crook — **State:** Oregon

Plot or pit location: Kennedy property, west of alfalfa field in old, un-maintained channel

Prevailing Weather Conditions: Sunny and hot, temperatures 100 F.

General Site Conditions:

Agricultural field

Is there noticeable disturbance of this site's native vegetation, soils, and/or hydrology?

Cattle grazing

Vegetation:

Dominant Plant Species:	Indicator Status	Stratum	% Cover
1 *Eleocharis palustris*	OBL	H	100*
2 *Hordeum jubatum*	FAC+	H	5
3			
4			
5			
6			
7			
8			
9			
10			

* = dominant

Percent of dominant species that are OBL, FACW, and/or FAC? 100%

Soils:

Series/Phase: Boyce loam — **Is the soil on the hydric soils list? Y/N** Yes

Soil profile: 0-18" 10YR 3/1, 3/2

Other hydric soil indicators:

None

Hydrology:

Visual observation of inundation. **Y/N** Yes

Visual observation of soil saturation. **Y/N** Yes

Depth to saturated soil: Surface — **Depth to free standing water:** Surface

Drift lines. Y/N No — **Sediment deposits. Y/N** No — **Drainage patterns. Y/N** No

DEA Wetland Determination:

Is the hydrophytic vegetation criterion met? **Y/N** Yes

Is the hydric soil criterion met? **Y/N** Yes

Is the specific hydrology criterion met? **Y/N** Yes

Is this plant community a wetland? **Y/N** Yes

Comments:

David Evans and Associates, Inc.
2828 SW Corbett Avenue
Portland, Oregon 97201
(503) 223-6663 FAX (503) 223-2701

WETLAND SUMMARY SHEET

Wetland Code: BB-A **Date of Field Determination:** 7/20, 8/31-9/2/94

** denotes offsite determination*

Wetland Data Points: ~~OC-13, OC-14~~

drains into Ryegrass Ditch → McKay Crk → Crooked River

Location:

Tax Lot: 103, 1601, map 14-16-29; 100, 201, map 14-16-32

Other: Barnes Butte drainage swale, below reservoir

Classification:

10-12 ft deep permanent open H2O

Cowardin: PEMC **NWI:** PEMC, PEMA, R4SBC

OW + edge.

Soil:

Series: Boyce silt loam

Color: 10YR 3/1, 10YR 4/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 77.25

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Scirpus americanus
		Juncus balticus
		Agrostis exarata
		Typha latifolia
		Hordeum jubatum
		Eplilobium watsonii

Comments: Located downslope from Barnes Butte Reservoir in broad drainage swale supporting palusterine, emergent wetland. As distance from dam increases, wetland narrows to riverine wetland. Hydrology derived from seepage from dam and nearby irrigation canal.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R4SBC: Riverine, intermittent, streambed, seasonal

WETLAND SUMMARY SHEET

Wetland Code: OC-A **Date of Field Determination:** 7/21/94

** denotes offsite determination*

Wetland Data Points: OC-I, OC-2, OC-3

Location:

Tax Lot: 2500 and 2501, map 15-16-4

Other: Stearns Land Co. and Purcell Properties, East of Town, Ochoco Creek

Classification:

Cowardin: PSSA/PEMC **NWI:** PSSA

Soil:

Series: Powder silt loam

Color: 10YR 3/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 10.32

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
	Salix exigua	*Phalaris arundinacea*
	Salix lasiandra	*Scirpus americanus*
		Polypogon monspleiensis

Comments: Located along Ochoco Creek east of town in agricultural field. Palusterine, scrub/shrub, and emergent wetland complex seasonally flooded or saturated. Located within 100-year floodplain.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: OC-B **Date of Field Determination:** 8/31/94

** denotes offsite determination*

Wetland Data Points: OC-4, OC-5

Location:

Tax Lot: 7200, map 15-16-4B

Other: Ochoco Lumber, behind diversion dam

Classification:

Cowardin: PEMC **NWI:** PUBFh/PSSA

Soil:

Series: Boyce silt loam, ponded

Color: N 2.5/

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 4.54

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Azolla mexicana
		Typha latifolia
		Phalaris arundinacea

Comments: Located along Ochoco Creek behind diversion dam at Ochoco Lumber, extending upstream east of Willowdale Drive. Large areas of wood-waste fills immediately adjacent to wetland and Ochoco Creek Located within 100-year floodplain.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: OC-C **Date of Field Determination:** 7/19/94

** denotes offsite determination*

Wetland Data Points: OC-7, OC-8, OC-9, and OC-10

Location:

Tax Lot: 203, map 14-15-36

Other: East bank of Ochoco Creek, at Flegel Trucking

Classification:

Cowardin: PEMC **NWI:** RU3BH

Soil:

Series: Powder fine sandy loam

Color: 10YR 3/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 0.63

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Phalaris arundinacea

Comments: Located along Ochoco Creek at Flegal Trucking. Palusterine, emergent wetland dominated by reed canarygrass. Located within 100-year floodplain.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: OC-D **Date of Field Determination:** 7/20/94

** denotes offsite determination*

Wetland Data Points: OC-11, OC-12

Location:

Tax Lot: 103, map 14-15-36

Other: East City property by Ochoco Creek, south of Industrial Park

Classification:

Cowardin: PEMC **NWI:** PSSC

Soil:

Series: Boyce silt loam

Color: 10YR 2/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 0.34

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
	Salix exigua	*Phalaris arundinacea*

Comments: Located along Ochoco Creek south of Industrial Park. Dredge spoils separate wetland from creek. Large fill area located immediately north in Industrial Park. Located within 100-year floodplain.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: OC-E **Date of Field Determination:** 9/1/94

** denotes offsite determination*

Wetland Data Points: OC-13, OC-14

Location:

Tax Lot: 1400, 1500, 1501, and 1502map 14-15-36

Other: Ochoco Creek at Green Acres mobile home park

Classification:

Cowardin: PEMC **NWI:** PFOC

Soil:

Series: Boyce silt loam

Color: 10YR 3/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 0.88

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Phalaris arundinacea

Comments: Located along Ochoco Creek at Green Acres mobile home park. Vegetation at mobile home park maintained, but property to south is not. Located in 100-year flood plain.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: CR-A **Date of Field Determination:** 7/21/94

** denotes offsite determination*

Wetland Data Points: CR-1, CR-2, and CR-3

Location:

Tax Lot: 800, map 15-16

Other: Kennedy property, wet pasture below diversion canal

Classification:

Cowardin: PEMC **NWI:** PEMC

Soil:

Series: Boyce silt loam

Color: 10YR 3/1 with 10YR 3/4 mottles; 10YR 4/1

Hydrologic Basin: Crooked River, Deschutes Basin

Size (acres): 14.63

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Festuca arundinacea
		Hordeum jubatum
		Trifolium repens
		Eleocharis palustris
		Rumex crispus
		Alopecerus pratensis

Comments: Located below Diversion Canal on Kennedy property. Hydrology derived from subsurface seepage from canal. Pasture planted to upland species but hydrophytes dominate volunteer species.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: CR-B **Date of Field Determination:** 7/21, 8/31 9/14/94

** denotes offsite determination*

Wetland Data Points: CR-4 to CR-17

Location:

Tax Lot: 800, map 15-16

Other: Kennedy property, pond/drainage swale

Classification:

Cowardin: PEMC **NWI:** PEMC/PEMA

Soil:

Series: Boyce silt loam

Color: 10YR 3/2 with 10YR 4/2 mottles; 10YR 4/1

Hydrologic Basin: Crooked River, Deschutes Basin

Size (acres): 11.88

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Eleocharis palustris
		Scirpus americanus
		Hordeum jubatum
		Scirpus acutus
		Typha latifolia
		Poa pratensis

Comments: Large wetland located in drainage swale with an adjacent man-made pond. SCS mapped hydric soils confirmed by field investigation.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: CR-C **Date of Field Determination:** _____

** denotes offsite determination*

Wetland Data Points: _____

Location:

Tax Lot: 304, map 15-16-6

Other: Meadow Lakes Golf Course, emergent wetland

Classification:

Cowardin: PEMC **NWI:** PEMC

Soil:

Series: Boyce silt loam

Color: 10YR 3/1

Hydrologic Basin: Crooked River, Deschutes Basin

Size (acres): 0.89

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata

Comments: Wetland previously delineated by DEA Biologists.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: CR-D **Date of Field Determination:** 7/20/94

** denotes offsite determination*

Wetland Data Points: CR-19, CR-20, and CR-21

Location:

Tax Lot: 301, map 15-16-6

Other: East bank of Crooked River at Meadow Lakes Estates

Classification:

Cowardin: PEMC **NWI:** R2UBH

Soil:

Series: Boyce silt loam; Riverwash

Color: 10YR 4/1 with 10YR 4/6 mottles; N3/

Hydrologic Basin: Crooked River, Deschutes Basin

Size (acres): 1.06

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Agrostis exarata
		Scirpus acutus
		Scirpus americanus
		Melilotis alba
		Carex rostrata
		Epilobium watsonii

Comments: Long but narrow floodplain bench wetland. New development near wetland has not negatively impacted wetland.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: RG-A* **Date of Field Determination:** _____

** denotes offsite determination*

Wetland Data Points: _____

Location:

Tax Lot: 800, map 14-16-30C; 1300 map 14-16-31B (Noble property)

Other: Large pasture, north of Lamonta at Gardner Road

Classification:

Cowardin: PEMC **NWI:** PEMA

Soil:

Series: Crooked sandy loam

Color: _____

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 18.86

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Typha latifolia
		Scirpus acutus
		Pasture grasses

Comments: Large wet pasture. Records on-file at City offices indicate at least one artesian well on-site. Hydrophytic vegetation visible from road.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: RG-B **Date of Field Determination:** 7/21, 9/1, 9/14/94

** denotes offsite determination*

Wetland Data Points: GR-1 to RG-14

Location:

Tax Lot: 500 map 14-15-25D (Rhoden property)

Other: Large pasture, north of Lamonta at Gardner Road

Classification:

Cowardin: PEMC, PUBF **NWI:** PEMC, PUBF

Soil:

Series: Boyce silt loam

Color:

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 42.24

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Typha latifolia
		Scirpus americanus
		Carex nabraskensis
		Trifolium repens
		Agrostis exarata
		Poa pratensis

Comments: Large, forked, drainage which has been dammed in several places creating areas of open water. Ryegrass Canal intercepts downslope flow of water. Wetland extends north beyond study area.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: IP-A **Date of Field Determination:** 7/20, 9/1/94

** denotes offsite determination*

Wetland Data Points: IP-1 to IP-5

Location:

Tax Lot: 1700, map 14-16-31B

Other: Consolidated Pine property, west of buildings

Classification:

Cowardin: PEMC **NWI:** PEMC

Soil:

Series: Boyce silt loam

Color: 10YR 3/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 18.32

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Typha latifolia
		Scirpus americanus
		Distichilis spicata
		Hordeum jubatum
		Lepidium latifolium
		Trifolium repens

Comments: Large palusterine emergent wetland located in Industrial Park area. Hydrology apparently derived from seeps and surface intersection with groundwater. Large areas of fill border wetland.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: IP-B* **Date of Field Determination:** 9/1/94

** denotes offsite determination*

Wetland Data Points:

Location:

Tax Lot: 1400, map 14-16-31B

Other: Consolidated Pine property, east of Garden Road

Classification:

Cowardin: PEMC **NWI:** PEMC

Soil:

Series: Boyce silt loam

Color:

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 0.34

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Typha latifolia

Comments: Small palusterine emergent wetland located in Industrial Park area. Hydrology apparently derived from seeps and surface intersection with groundwater. Large areas of fill border wetland. Undoubtably connected to Wetland IP-A prior to placement of fill material.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

WETLAND SUMMARY SHEET

Wetland Code: IP-C **Date of Field Determination:** 9/1/94

** denotes offsite determination*

Wetland Data Points: IP-7 to IP-9

Location:

Tax Lot: 1400, map 14-15-25D (Owens Freight Company)

Other: Industrial Park at west terminus of Industrial Park Road

Classification:

Cowardin: PEMC **NWI:** PEMC

Soil:

Series: Boyce silt loam

Color: 10YR 3/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 2.55

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Juncus balticus
		Scirpus americanus
		Hordeum jubatum

Comments: Small palusterine emergent wetland located at west terminus of Industrial Park Road. Large areas of fill border wetland. Wetland in Industrial Park dominated by ruderal species due to recent disturbance. Above species list from undisturbed neighboring property.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

APPENDIX E

STUDY AREA SUMMARY SHEET

STUDY AREA SUMMARY SHEET

Hydrologic Basin: Deschutes Basin

Total Acres of Study Area: 9,886

Total Acres of Wetland: 204.73

Total Number of Wetlands (>0.5 acres): 15

APPENDIX F

CORRESPONDENCE WITH AGENCIES IN DETERMINATION OF WETLANDS OF SPECIAL INTEREST

August 31, 1994 PRNX0019

National Marine Fisheries Service
911 NE 11th Ave.
Portland, Oregon 97232

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a series of questions must be answered. Two of these questions fall under National Marine Fisheries Service jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests a list of sensitive, threatened, and endangered (STE) species of plants and animals, and the location of any wetlands designated as critical habitat for STE species which may occur in the project area.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

DAVID EVANS AND ASSOCIATES, INC.
A PROFESSIONAL SERVICES CONSULTING FIRM
OFFICES IN OREGON, WASHINGTON, CALIFORNIA AND ARIZONA
2828 S.W. CORBETT AVENUE
PORTLAND, OREGON 97201-4530
(503) 223-6663 FAX (503) 223-2701

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
ENVIRONMENTAL & TECHNICAL SERVICES DIVISION
911 NE 11th Avenue - Room 620
PORTLAND, OREGON 97232
503/230-5400 FAX 503/230-5435

F/NWO3

OCT 6 1994

Mr. Kevin O'Hara
David Evans and Associates, Inc.
2828 S.W. Corbett Avenue
Portland, Oregon 97201-4830

Re: Species List Request for City of Prineville Local Wetlands Inventory, Prineville, Oregon

Dear Mr. O'Hara:

The National Marine Fisheries Service (NMFS) has reviewed your August 31, 1994, letter requesting a list of threatened or endangered species for the proposed local wetlands inventory for the city of Prineville, Oregon.

We have reviewed the subject proposal with regard to the conditions contained in 33 CFR Part 330 (Nationwide Permit Program Regulations and Issue, Reissue, and Modify Nationwide Permits; Final Rule) related to Endangered Species (Appendix A to Part 330, Section C.11).

Available information indicates that no listed Snake River salmon occur in the project area. The designated critical habitat for listed Snake River salmon (December 28, 1993, 58 FR 68453) does not include the proposed project area.

We have enclosed a list of anadromous fish species that are listed as endangered or threatened, proposed for listing, or are candidates for listing under the Endangered Species Act for your information. This list includes only those species under NMFS jurisdiction that occur in the Pacific Northwest.

The U.S. Fish and Wildlife Service should be contacted regarding the presence of species under its jurisdiction.

This letter constitutes the required notification of the presence of any Federally listed endangered or threatened anadromous fish

species or critical habitat under NMFS jurisdiction in the permit area that may be affected by the proposed project (Appendix A to Part 330, Section C.13(5)(i)).

If you have further questions, please contact Ben Meyer, of my staff, at (503) 230-5425.

Sincerely,

Brian J. Brown
Acting Division Chief

Enclosure

ENDANGERED AND/OR THREATENED SPECIES UNDER NATIONAL MARINE FISHERIES SERVICE JURISDICTION THAT MAY OCCUR IN THE PACIFIC NORTHWEST OR ADJACENT COASTAL WATERS

MARINE/ANADROMOUS FISH

Listed Species

Sacramento River Winter-Run Chinook Salmon	*Oncorhynchus tshawytscha*
Snake River Sockeye Salmon	*Oncorhynchus nerka*
Snake River Fall Chinook Salmon	*Oncorhynchus tshawytscha*
Snake River Spring/Summer Chinook Salmon	*Oncorhynchus tshawytscha*

PROPOSED SPECIES

North Umpqua River Cutthroat Trout	*Oncorhynchus clarki clarki*

CANDIDATE SPECIES

Mid-Columbia River Summer Chinook Salmon	*Oncorhynchus tshawytscha*
Coho Salmon	*Oncorhynchus kisutch*
Steelhead	*Oncorhynchus mykiss*

August 31, 1994 PRNX0019

Oregon Department of Agriculture
635 Capitol Street NE
Salem, Oregon 97310-0110

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a list of candidate, threatened, and endangered plant species is required.

On behalf of the City of Prineville, DEA requests a list of all candidate, threatened, and endangered species of plants and animals which may occur in the project area. I have included a map with project area clearly delineated.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

DAVID EVANS AND ASSOCIATES, INC.
A PROFESSIONAL SERVICES CONSULTING FIRM
OFFICES IN OREGON, WASHINGTON, CALIFORNIA AND ARIZONA
2828 S.W. CORBETT AVENUE
PORTLAND, OREGON 97201-4830
503-223-6663 FAX 503-223-2701

Oregon
Department
of Agriculture

September 8, 1994

Kevin O'Hara
David Evans and Associates
2828 SW Corbett Ave.
Portland, OR 97201-4830

Dear Kevin:

I'm responding to your letter of August 31, in which you request data on threatened and endangered (T/E) species potentially located in the Prineville area. Our program is not funded by the Legislature to maintain a distributional data base -- we are fundamentally a regulatory and research group focussing on conservation issues in the field.

However, the Oregon Natural Heritage Program in Portland (228-5078), affiliated with The Nature Conservancy, is contracted by the State of Oregon to maintain and service a data base of T/E geographical records for state agencies and other interested parties. I suggest you contact Sue Vrilakis of that office for additional details. If you do locate any T/E species on municipal property during your inventories, we would then be able to provide you with advice on matters pertaining to conservation requirements or mitigation, on behalf of the City of Prineville.

Sincerely,

Bob Meinke
Program Leader
Plant Conservation Biology
Natural Resources Division
(503)378-3810
(503)378-2590 Fax

Barbara Roberts
Governor

635 Capitol Street NE
Salem, OR 97310-0110

August 31, 1994 PRNX0019

Oregon Department of Fish and Wildlife
Prineville Field Office
Paulina Star Route
Prineville, Oregon 97801

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a series of questions must be answered. Several of these question fall under Oregon Department of Fish and Wildlife (ODFW) jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests a list of all sensitive, threatened, and endangered species of plants and animals; location of any wetlands documented as habitat for,or of regional or national significance for migratory birds; and the location of any wetland protected in an ODFW state or local management plan which may occur in the project area.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

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CITY OF PRINEVILLE
LOCAL WETLANDS INVENTORY

DETERMINATION OF WETLANDS OF SPECIAL INTEREST

AGENCY: Oregon Department of Fish and Wildlife (ONHP)

CONTACT: Thiesfeld Ochoco District Office

DATE: 9/12/94

ODFW provided a map indicating red-side trout distribution throughout the Crooked River and Ochoco Creek in the study area. Waterfowl nesting habitat was identified along the Crooked River from south of the County Park to the confluence with Ochoco Creek, along Ochoco Creek from the east border of the study area to the ponded area behind Ochoco Lumber's diversion dam, the City sewage lagoons, and Barnes Butte Reservoir. Two sensitive bird nesting sites were identified, but both are in areas determined to be uplands.

August 31, 1994 PRNX0019

Oregon Natural Heritage Program
1205 NW 25 th Avenue
Portland, Oregon 97210

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory (LWI) as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a series of questions must be answered. Several of these deal with candidate, threatened, and endangered species of plants and animals. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests a search of the Oregon Natural Heritage Database for all sensitive, threatened, or endangered species known to occur in the study area. We also request the location of any State Natural Heritage Conservation Area, and the location of any uncommon wetland plant communities known to occur in the study area.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

DAVID EVANS AND ASSOCIATES, INC.
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CITY OF PRINEVILLE
LOCAL WETLANDS INVENTORY

DETERMINATION OF WETLANDS OF SPECIAL INTEREST

AGENCY: Oregon Natural Heritage Program (ONHP)

CONTACT: Connie Levesque

DATE: 9/6/94

ONHP conducted a search of their database for rare, threatened and endangered plant, animal and plant community records in the Prineville area. As per standard ONHP policy, results of the search are to be kept confidential.

Two sensitive plant species and one plant community were identified in the database search. These were not encountered during the field survey.

August 31, 1994 PRNX0019

US Fish and Wildlife Service
Portland Field Office
2600 SE 98th Avenue, Suite 100
Portland, Oregon 97266

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation, a series of questions must be answered. Several of these questions fall under US Fish and Wildlife Service (FWS) jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests a list of all sensitive, threatened, and endangered (STE) species of plants and animals; location of any wetlands designated as critical habitat for STE species; location of any Federal Natural Research Area; location of any wetlands documented as habitat for, or of regional or national significance for migratory birds; and the location of any wetland protected in an FWS national, state or local management plan which may occur in the project area.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

DAVID EVANS AND ASSOCIATES, INC.
A PROFESSIONAL SERVICES CONSULTING FIRM
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CITY OF PRINEVILLE
LOCAL WETLANDS INVENTORY

DETERMINATION OF WETLANDS OF SPECIAL INTEREST

AGENCY: US Fish and Wildlife Service (USFWS)

CONTACT: Josh Millam

DATE: 9/12/94

The USFWS will not be able to comply with request for determination of presence of STE species in Prineville because no federal money is involved in project.

August 31, 1994 PRNX0019

Agricultural Stabilization and Conservation Service
350 N. Dunham
Prineville, Oregon 97232

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a series of questions must be answered. One of these questions falls under Agricultural Stabilization and Conservation Service (ASCS) jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests the location of any restored or protected area included in the wetland conservation program administered by the ASCS within the study area.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

DAVID EVANS AND ASSOCIATES, INC.
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503) 223-6663 FAX (503) 223-2701

UNITED STATE DEPARTMENT OF AGRICULTURE
Agricultural Stabilization and Conservation Service

Crook-Deschutes County ASCS Office
350 North Dunham
Prineville, OR 97754
Telephone: (503) 447-5171

September 19, 1994

Kevin O'Hara, Environmental Scientist
David Evans and Associates, Inc.
2828 S.W. Corbett Avenue
Portland, OR. 97201-4830

SUBJECT: Respond to City of Prineville Local Wetland Inventory

After discussing this matter with the local Soil Conservation Service as well as reviewing the county office files, I have concluded that there is no land, within your study area, that is participating in the Wetland Conservation Program.

Should you have any additional questions in reference to this subject, feel free to contact me .

Sincerely,

Harald M. Dilling
County Executive Director

August 31, 1994 PRNX0019

US Army Corps of Engineers
P.O. Box 2946
Portland, Oregon 97208-2946

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a series of questions must be answered. Several of these question fall US Army Corps of Engineers jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests the location of any Federal Natural Research Areas, and any *protected* mitigation sites for a removal-fill permit, federal 404 fill permit, or enforcement actions in the study area. Protected means there is a legal instrument, such as a conservation easement, that will preclude a wetland impact permit being issued.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

DAVID EVANS AND ASSOCIATES, INC.
A PROFESSIONAL SERVICES CONSULTING FIRM
OFFICES IN OREGON, WASHINGTON, CALIFORNIA AND ARIZONA
2828 S.W. CORBETT AVENUE
PORTLAND, OREGON 97201-4830
(503) 223-6663 FAX (503) 223-2701

DEPARTMENT OF THE ARMY
PORTLAND DISTRICT, CORPS OF ENGINEERS
P. O. BOX 2946
PORTLAND, OREGON 97208-2946

Reply to
Attention of:

November 14, 1994

Operations Division

SUBJECT: Wetland Inventory in Prineville, Crook County, Oregon

Kevin O'Hara
David Evans and Associates, Inc.
2828 S.W. Corbette Avenue
Portland, Oregon 97201-2701

Dear Mr. O'Hara:

We have received your request for any protected mitigation sites for removal-fill permit, Federal Natural Research Areas, Federal 404 fill permit, or enforcement actions in the study area. We have received an application from Owens Freightlines to place fill material within an area that may contain wetlands, application number 94-362.

For the other areas of interest we are recommending the following action:

a. For areas of archeological interest you may wish to contact;

John Zancanella or Marci Todd
Prineville District Office BLM
P.O. Box 550
Prineville, Oregon 97754

b. For Endangered Species you should contact the Portland Office of the U.S. Fish and Wildlife Service.

Thank you for your interest in the wetland and permit program as it pertains to the Clean Water Act. If you require additional information, please contact me at the above address or by telephoning (503) 326-6997.

Sincerely,

Roy Loghry
Project Manager
Regulatory and Environmental
Resource Branch

Copies Furnished:

ODSL
EPA (Portland)
File 94-632 (Owens Freightlines)

August 31, 1994 PRNX0019

Oregon Division of State Lands
1900 NE Division, Suite 203
Bend, Oregon 97701

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology*. As part of this evaluation a series of questions must be answered. One of these questions fall under Division of State Lands (DSL) jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests the location of any *protected* mitigation sites for a removal-fill permit, federal 404 fill permit, or enforcement actions in the study area. Protected means there is a legal instrument, such as a conservation easement, that will preclude a wetland impact permit being issued.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

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PORTLAND, OREGON 97201-4830
(503) 223-6663 FAX (503) 223-2701

Oregon

DIVISION OF
STATE LANDS

RECEIVED
OCT 14 1994

October 12, 1994

Mr. Kevin O'Hara
David Evans & Associates, Inc.
2828 S.W. Corbett Avenue
Portland, Oregon 97201-4830

Re: City of Prineville Local Wetlands Inventory

Dear Kevin:

I have reviewed the files at the Division and find no sites that are legally protected in the name of the Division of State Lands within the study area of the city of Prineville. I talked with Karen Swirsky who indicated you had the inventory data in hand. I would like to review your progress at your convenience to get up to speed. Please call to set up a time when we can get together in your offices.

Keep up the good work.

Sincerely,

Kenneth F. Bierly
Wetlands Program Manager

KFB/sz
ken:1083

c: Dick Brown, City of Prineville

775 Summer Street NE
Salem, OR 97310-1337
(503) 378-3805
FAX (503) 378-4844

August 31, 1994 PRNX0019

Oregon Department of Environmental Quality
811 SW Sixth Ave.
Portland, Oregon 97204

SUBJECT: CITY OF PRINEVILLE LOCAL WETLANDS INVENTORY

David Evans and Associates, Inc. (DEA) has been retained by the City of Prineville to complete a Local Wetlands Inventory as part of the city's Comprehensive Plan update for their Goal 5 Inventory. Functions and values of each identified wetland are being evaluated using the 1993 *Oregon Freshwater Wetland Assessment Methodology.* As part of this evaluation a series of questions must be answered. One of these questions fall under Oregon Department of Environmental Quality jurisdiction. I have included a map with the project area clearly delineated.

On behalf of the City of Prineville, DEA requests the location of any wetlands within the subject area designated as a State Outstanding Resource Water.

Thank you for your time and cooperation on this project. If you have any questions, please don't hesitate to call.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Kevin O'Hara

Kevin O'Hara
Environmental Scientist

Enclosure

DAVID EVANS AND ASSOCIATES, INC.
A PROFESSIONAL SERVICES CONSULTING FIRM
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(503) 223-6663 FAX (503) 223-2701

CITY OF PRINEVILLE
LOCAL WETLANDS INVENTORY

DETERMINATION OF WETLANDS OF SPECIAL INTEREST

AGENCY: Department of Environmental Quality (DEQ)

CONTACT: Dana Seigfreid

DATE: 9/10/94

There are no designated Outstanding Resource Waters within the Prineville LWI study area.

DEQ is in the process of adopting rules for designating Outstanding Resource Waters, so this determination is subject to change at the time the rules are adopted.

APPENDIX G

WETLANDS OF SPECIAL INTEREST FOR PROTECTION: ANSWER SHEETS

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Wetlands of Special Interest for Protection: Answer Sheet						
	Wetland Identifier	**OC-A:** Steins Land Co., Ochoco Creek east of town	**OC-B:** Ochoco Lumber behind diversion dam	**OC-C:** East bank of Ochoco Creek, at Flegal Trucking	**OC-D:** City property by Ochoco Creek, south of Ind. Park	**OC-E:** Ochoco Cr. at Green Acres Mobile Home Park
1	ST&E species	Redband Trout (Sensitive species)	Redband Trout (Sensitive species)	Redband Trout (Sensitive species)	Redband Trout (Sensitive species)	Redband Trout (Sensitive species)
2	Critical habitat	No	No	No	No	No
3	Registered	No	No	No	No	No
4	Migratory bird habitat	No	No	No	No	No
5	WCP or Goal 5	No	No	No	No	No
6	Outstanding resource water	No	No	No	No	No
7	Park, refuge, scenic river	No	No	No	No	No
8	Protected mitigation site	No	No	No	No	No
9	ASCS conservation plan	No	No	No	No	No
10	Rare or unique wetland	No	No	No	No	No

	Wetland Identifier	**BB-A:** Barnes Butte drainage swale, below reservoir	**CR-A:** Kennedy property, wet pasture below canal	**CR-B:** Kennedy property, pond/ drainage swale	**CR-C:** Meadow Lakes Golf Course emergent wetland	**CR-D:** East bank of Crooked River, north of Golf Course
1	ST&E species	No	No	No	No	Redband Trout (Sensitive species)
2	Critical habitat	No	No	No	No	No
3	Registered	No	No	No	No	No
4	Migratory bird habitat	No	No	No	No	No
5	WCP or Goal 5	No	No	No	No	No
6	Outstanding resource water	No	No	No	No	No
7	Park, refuge, scenic river	No	No	No	No	No
8	Protected mitigation site	No	No	No	No	No
9	ASCS conservation plan	No	No	No	No	No

10	Rare or unique wetland	No	No	No	No	No

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Wetlands of Special Interest for Protection: Answer Sheet						
	Wetland Identifier	**IP-A**: Consolidated Pine property, west of buildings	**IP-B**: Consolidated Pine property, east of Garden Road	**IP-C**: Industrial Park at west end of Industrial Park Road	**RG-A**: Large pasture north of Lomata at Garden Road	**RG-B**: Ryegrass drainages and ponds
1	ST&E species	No	No	No	No	No
2	Critical habitat	No	No	No	No	No
3	Registered	No	No	No	No	No
4	Migratory bird habitat	No	No	No	No	No
5	WCP or Goal 5	No	No	No	No	No
6	Outstanding resource water	No	No	No	No	No
7	Park, refuge, scenic river	No	No	No	No	No
8	Protected mitigation site	No	No	No	No	No
9	ASCS conservation plan	No	No	No	No	No
10	Rare or unique wetland	No	No	No	No	No

APPENDIX H

WETLAND ASSESSMENT QUESTIONS: ANSWER SHEETS

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**OC-A**: Stearns Land Co., Ochoco Creek east of town	**OC-B**: Ochoco Lumber behind diversion dam	**OC-C**: East bank of Ochoco Creek, at Flegal Trucking	**OC-D**: City property by Ochoco Creek, south of Ind. Park	**OC-E**: Ochoco Cr. at Green Acres Mobile Home Park
	Wildlife Habitat					
1	Cowardin classes	**B**	**C**	**C**	**C**	**B**
2	Dominant class	**A**	**B**	**B**	**B**	**B**
3	Interspersion	**C**	**C**	**C**	**C**	**C**
4	Open water area	**A**	**B**	**A**	**A**	**B**
5	Hydrologic connections*	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
6	Temporal presence	**A**	**A**	**A**	**A**	**A**
7	Water quality	**B**	**B**	**B**	**B**	**A**
8	Dominant land use	**B**	**C**	**C**	**C**	**B**
9	Upland habitat	**C**	**C**	**C**	**C**	**C**
	Assessment Descriptor * western Oregon only	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species
	Fish Habitat *Streams and rivers*					
1	% Shaded	**C**	**B**	**C**	**C**	**C**
2	Physical character	**C**	**C**	**C**	**C**	**C**
3	% Stream cover objects	**C**	**C**	**C**	**C**	**C**
4	Water quality	**B**	**B**	**B**	**B**	**B**
5	Dominant land use	**C**	**C**	**C**	**C**	**C**
6	Species of fish	**A**	**A**	**A**	**A**	**A**
	Lakes and ponds					
1	Water depth variance					
2	% Lake cover objects					
3	% Shoreline vegetated					
4	Water quality					
5	Dominant land use					
6	Species of fish					
	Assessment Descriptor	Potentially contributes to fish habitat	Potentially contributes to fish habitat	Potentially contributes to fish habitat	Potentially contributes to fish habitat	Potentially contributes to fish habitat

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**OC-A**: Stearns Land Co., Ochoco Creek east of town	**OC-B**: Ochoco Lumber behind diversion dam	**OC-C**: East bank of Ochoco Creek, at Flegal Trucking	**OC-D**: City property by Ochoco Creek, south of Ind. Park	**OC-E**: Ochoco Cr. at Green Acres Mobile Home Park
	Water Quality					
1	Water source	**A**	**A**	**A**	**A**	**A**
2	Floods or ponds	**A**	**A**	**A**	**A**	**A**
3	% Vegetative cover	**A**	**B**	**A**	**A**	**B**
4	Area in acres	**B**	**B**	**B**	**B**	**B**
5	Dominant land use	**A**	**A**	**C**	**A**	**A**
6	Upstream water quality	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Provides water-quality benefits	Provides water-quality benefits	Provides water-quality benefits	Provides water-quality benefits	Potential to provide water-quality benefits
	Hydrologic Control					
1	In 100-year floodplain	**A**	**A**	**A**	**A**	**A**
2	Floods or ponds	**A**	**A**	**A**	**A**	**A**
3	Area in acres	**B**	**B**	**B**	**B**	**B**
4	Outflow restricted	**B**	**B**	**B**	**B**	**B**
5	% Forest or scrub/shrub	**A**	**B**	**C**	**C**	**C**
6	Land use downslope	**B**	**A**	**A**	**A**	**A**
7	Land use upslope	**A**	**A**	**A**	**A**	**A**
	Assessment Descriptor	Potential to provide hydrologic control	Provides hydrologic control	Provides hydrologic control	Provides hydrologic control	Provides hydrologic control
	Sensitivity to Impact					
1	Upstream modifications	**A**	**A**	**A**	**A**	**A**
2	Upstream water quality	**B**	**B**	**B**	**B**	**B**
3	Existing land use	**B**	**A**	**A**	**A**	**A**
4	Zoned land use	**B**	**A**	**A**	**A**	**A**
5	Cowardin class	**A**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Potentially sensitive to secondary effects	Sensitive to secondary effects	Sensitive to secondary effects	Sensitive to secondary effects	Sensitive to secondary effects

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**OC-A**: Stearns Land Co., Ochoco Creek east of town	**OC-B**: Ochoco Lumber behind diversion dam	**OC-C**: East bank of Ochoco Creek, at Flegal Trucking	**OC-D**: City property by Ochoco Creek, south of Ind. Park	**OC-E**: Ochoco Cr. at Green Acres Mobile Home Park
	Enhancement potential					
1	Assessment results	**B**	**A**	**A**	**A**	**A**
2	Tillage or compaction	**A**	**B**	**A**	**A**	**A**
3	Source of water	**C**	**A**	**A**	**A**	**A**
4	Hydrology restored	**C**	**A**	**A**	**A**	**A**
5	Area in acres	**A**	**B**	**B**	**B**	**C**
6	Sensitivity to effects	**B**	**C**	**C**	**C**	**C**
	Assessment Descriptor	Potential for enhancement	Potential for enhancement	Can be enhanced	Can be enhanced	Potential for enhancement
	Education					
1	Open to public	**A**	**A**	**A**	**A**	**A**
2	Visible hazards	**A**	**C**	**B**	**B**	**B**
3	Fish and wildlife study	**B**	**B**	**B**	**B**	**B**
4	Access to other habitats	**B**	**B**	**B**	**C**	**A**
5	Public access within 250'	**A**	**A**	**A**	**A**	**B**
6	Difficult access	**C**	**C**	**C**	**C**	**A**
	Assessment Descriptor	Potential for educational use	Not appropriate for educational use	Potential for educational use	Potential for educational use	Potential for educational use
	Recreation					
1	Public access within 250'	**C**	**C**	**C**	**C**	**A**
2	Boat launch	**C**	**C**	**C**	**C**	**C**
3	Maintained trails	**C**	**C**	**C**	**C**	**C**
4	Non-consumptive use	**B**	**B**	**B**	**B**	**B**
5	Fishing allowed	**A**	**B**	**A**	**A**	**A**
6	Hunting allowed	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Not appropriate for recreational use	Not appropriate for recreational use	Not appropriate for recreational activities	Not appropriate for recreational activities	Potential to provide for recreational activities

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**OC-A**: Steins Land Co., Ochoco Creek east of town	**OC-B**: Ochoco Lumber behind diversion dam	**OC-C**: East bank of Ochoco Creek, at Flegal Trucking	**OC-D**: City property by Ochoco Creek, north of Ind. Park	**OC-E**: Ochoco Cr. at Green Acres Mobile Home Park
	Aesthetic Quality					
1	Cowardin classes	**A**	**B**	**B**	**B**	**A**
2	General appearance	**B**	**C**	**C**	**C**	**C**
3	Surrounding area	**B**	**A**	**B**	**B**	**B**
4	Odors present	**A**	**B**	**B**	**C**	**B**
5	Noises audible	**B**	**C**	**C**	**C**	**C**
	Assessment Descriptor	Considered pleasing	Considered not pleasing	Considered not pleasing	Considered not pleasing	Considered not pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

	Wetland Assessment Questions: Answer Sheet					
	Wetland Identifier	**BB-A**: Barnes Butte drainage swale, below reservoir	**CR-A**: Kennedy property, wet pasture below canal	**CR-B**: Kennedy property, pond/ drainage swale	**CR-C**: Meadow Lakes Golf Course emergent wetland	**CR-D**: East bank of Crooked River, north of Golf Course
	Wildlife Habitat	open H2O emergent no trees				
1	Cowardin classes	B	C	C	C	B
2	Dominant class	B	C	B	C	B
3	Interspersion	B	C	C	C	C
4	Open water area	~~C~~ A	C	A	C	A
5	Hydrologic connections*	N/A	N/A	N/A	N/A	N/A
6	Temporal presence	A	B	A	A	A
7	Water quality	B	B	B	B	B
8	Dominant land use	B	B	B	B	C
9	Upland habitat	A	C	C	C	C
	Assessment Descriptor * western Oregon only	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species
	Fish Habitat *Streams and rivers*					
1	% Shaded	C	N/A		C	C
2	Physical character	C	N/A		C	C
3	% Stream cover objects	C	N/A		C	C
4	Water quality	B	N/A		B	B
5	Dominant land use	B	N/A		C	C
6	Species of fish	C they have fishing decks there	N/A		A	B
	Lakes and ponds					
1	Water depth variance		N/A	C		
2	% Lake cover objects		N/A	C		
3	% Shoreline vegetated		N/A	C		
4	Water quality		N/A	B		
5	Dominant land use		N/A	B		
6	Species of fish		N/A	C		
	Assessment Descriptor	Potentially contributes to fish habitat	No associated stream, lake or pond	Potentially contributes to fish habitat	Potentially contributes to fish habitat	Potentially contributes to fish habitat

Can take the next step if known waterfowl area. BRJ

Wetland Assessment Questions: Answer Sheet

	Wetland Identifier	**BB-A**: Barnes Butte drainage swale, below reservoir	**CR-A**: Kennedy property, wet pasture	**CR-B**: Kennedy property, pond/ drainage swale	**CR-C**: Meadow Lakes Golf Course emergent wetland	**CR-D**: East bank of Crooked River, north of Golf Course
	Water Quality			source: SEER water contamination		
1	Water source	**A**	**C**	**C**	**B**	**A**
2	Floods or ponds	**A**	**A**	**A**	**C**	**A**
3	% Vegetative cover	**A**	**A**	**A**	**A**	**A**
4	Area in acres	**A**	**B**	~~B~~ A	**B**	**B**
5	Dominant land use	**B**	**B**	**B**	**A**	**A**
6	Upstream water quality	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Provides water-quality benefits	Potential to provide water-quality benefits	Potential to provide water-quality benefits	Potential to provide water-quality benefits	Provides water-quality benefits
	Hydrologic Control					
1	In 100-year floodplain	B ?	**B**	**A**	**A**	**A**
2	Floods or ponds	**A**	**A**	**A**	**C**	**A**
3	Area in acres	**A**	**A**	**A**	**B**	**B**
4	Outflow restricted	**B**	**B**	**B**	**A**	**B**
5	% Forest or scrub/shrub	~~C~~ B no forest	**C**	**A**	**C**	**C**
6	Land use downslope	**A**	**B**	**B**	**A**	**A**
7	Land use upslope	**B**	**B**	**B**	**A**	**A**
	Assessment Descriptor	Potential to provide hydrologic control	Potential to provide hydrologic control	Potential to provide hydrologic control	Provides hydrologic control	Provides hydrologic control
	Sensitivity to Impact					
1	Upstream modifications	**A**	**A**	**A**	**A**	**A**
2	Upstream water quality	**B**	**B**	**B**	**B**	**B**
3	Existing land use	**A**	**B**	**B**	**A**	**A**
4	Zoned land use	**A**	**B**	**B**	**A**	**A**
5	Cowardin class	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Sensitive to secondary effects	Potentially sensitive to secondary effects	Potentially sensitive to secondary effects	Potentially sensitive to secondary effects	Sensitive to secondary effects

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**BB-A**: Barnes Butte drainage swale, below reservoir	**CR-A**: Kennedy property, wet pasture	**CR-B**: Kennedy property, pond/ drainage swale	**CR-C**: Meadow Lakes Golf Course emergent wetland	**CR-D**: East bank of Crooked River, north of Golf Course
	Enhancement potential					
1	Assessment results	**A**	**B**	**B**	**A**	**A**
2	Tillage or compaction	**A**	**B**	**B**	**B**	**A**
3	Source of water	**A**	**B**	**B**	**B**	**A**
4	Hydrology restored	**A**	**C**	**C**	**C**	**A**
5	Area in acres	**B**	**A**	**A**	**C**	**B**
6	Sensitivity to effects	**C**	**B**	**B**	**B**	**C**
	Assessment Descriptor	Potential for enhancement	Potential for enhancement	Potential for enhancement	Potential for enhancement	Potential for enhancement
	Education					
1	Open to public	**A**	**A**	**A**	**A**	**A**
2	Visible hazards	**B**	**B**	**B**	**A**	**B**
3	Fish and wildlife study	**B**	**B**	**B**	**B**	**B**
4	Access to other habitats	**B**	**A**	**A**	**A**	**B**
5	Public access within 250'	**A**	**B**	**B**	**A**	**A**
6	Difficult access	**C**	**B**	**B**	**A**	**C**
	Assessment Descriptor	Potential for educational use	Potential for educational use	Potential for educational use	Wetland has educational use	Potential for educational use
	Recreation					
1	Public access within 250'	**B**	**C**	**C**	**A**	**C**
2	Boat launch	**C**	**C**	**C**	**B**	**C**
3	Maintained trails	**C**	**C**	**C**	**A**	**C**
4	Non-consumptive use	**B**	**B**	**B**	**B**	**B**
5	Fishing allowed	**B**	**B**	**B**	**A**	**A**
6	Hunting allowed	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Potential for recreational activities	Not appropriate for recreational use	Not appropriate for recreational use	Potential to provide for recreational activities	Not appropriate for recreational activities

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**BB-A**: Barnes Butte drainage swale, below reservoir	**CR-A**: Kennedy property, wet pasture	**CR-B**: Kennedy property, pond/ drainage swale	**CR-C**: Meadow Lakes Golf Course emergent wetland	**CR-D**: East bank of Crooked River, north of Golf Course
	Aesthetic Quality					
1	Cowardin classes	**B**	**B**	**B**	**B**	**A**
2	General appearance	**A**	**B**	**B**	**A**	**B**
3	Surrounding area	**A**	**B**	**B**	**C**	**B**
4	Odors present	**A**	**B**	**B**	**A**	**A**
5	Noises audible	**A**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Considered pleasing	Potentially pleasing	Potentially pleasing	Potentially pleasing	Considered pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**IP-A**: Consolidated Pine property, west of buildings	**IP-B**: Consolidated Pine property, east of Garden Road	**IP-C**: Industrial Park at west end of Industrial Park Road	**RG-A**: Large pasture north of Lomata at Garden Road	**RG-B**: Ryegrass drainages and ponds
	Wildlife Habitat					
1	Cowardin classes	**C**	**C**	**C**	**C**	**B**
2	Dominant class	**B**	**B**	**C**	**C**	**B**
3	Interspersion	**B**	**C**	**C**	**C**	**B**
4	Open water area	**C**	**C**	**C**	**C**	**A**
5	Hydrologic connections*	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
6	Temporal presence	**A**	**A**	**B**	**B**	**A**
7	Water quality	**B**	**B**	**B**	**B**	**B**
8	Dominant land use	**C**	**C**	**C**	**B**	**B**
9	Upland habitat	**C**	**C**	**C**	**C**	**C**
	Assessment Descriptor * western Oregon only	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species	Provides habitat for some wildlife species
	Fish Habitat	**IP-A**: Consolidated Pine property, west of buildings	**IP-B**: Consolidated Pine property, east of Garden Road	**IP-C**: Industrial Park at west end of Industrial Park Road	**RG-A**: Large pasture north of Lomata at Garden Road	**RG-B**: Ryegrass drainages and ponds
	Streams and rivers					
1	% Shaded		**C**	**N/A**	**N/A**	
2	Physical character		**C**	**N/A**	**N/A**	
3	% Stream cover objects		**C**	**N/A**	**N/A**	
4	Water quality		**B**	**N/A**	**N/A**	
5	Dominant land use		**C**	**N/A**	**N/A**	
6	Species of fish		**C**	**N/A**	**N/A**	
	Lakes and ponds					
1	Water depth variance	**C**		**N/A**	**N/A**	**C**
2	% Lake cover objects	**C**		**N/A**	**N/A**	**C**
3	% Shoreline vegetated	**A**		**N/A**	**N/A**	**A**
4	Water quality	**B**		**N/A**	**N/A**	**B**
5	Dominant land use	**C**		**N/A**	**N/A**	**B**
6	Species of fish	**C**		**N/A**	**N/A**	**B**
	Assessment Descriptor	Potentially contributes to fish habitat	Potentially contributes to fish habitat	No associated stream, lake or pond	No associated stream, lake or pond	Potentially contributes to fish habitat

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**IP-A**: Consolidated Pine property, west of buildings	**IP-B**: Consolidated Pine property, east of Garden Road	**IP-C**: Industrial Park at west end of Industrial Park Road	**RG-A**: Large pasture north of Lomata at Garden Road	**RG-B**: Ryegrass drainages and ponds
	Water Quality					
1	Water source	**C**	**C**	**C**	**A**	**A**
2	Floods or ponds	**A**	**A**	**A**	**A**	**A**
3	% Vegetative cover	**A**	**A**	**A**	**A**	**A**
4	Area in acres	**A**	**B**	**B**	**A**	**A**
5	Dominant land use	**A**	**A**	**A**	**B**	**B**
6	Upstream water quality	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Potential to provide water-quality benefits	Potential to provide water-quality benefits	Potential to provide water-quality benefits	Provides water-quality benefits	Provides water-quality benefits
	Hydrologic Control					
1	In 100-year floodplain	**A**	**B**	**B**	**B**	**B**
2	Floods or ponds	**A**	**A**	**C**	**A**	**A**
3	Area in acres	**A**	**B**	**B**	**A**	**A**
4	Outflow restricted	**A**	**B**	**A**	**A**	**A**
5	% Forest or scrub/shrub	**C**	**C**	**C**	**C**	**C**
6	Land use downslope	**B**	**A**	**A**	**A**	**B**
7	Land use upslope	**A**	**A**	**A**	**A**	**B**
	Assessment Descriptor	Potential to provide hydrologic control	Potential to provide hydrologic control	Potential to provide hydrologic control	Provides hydrologic control	Potential to provide hydrologic control
	Sensitivity to Impact					
1	Upstream modifications	**A**	**A**	**A**	**A**	**A**
2	Upstream water quality	**B**	**B**	**B**	**B**	**B**
3	Existing land use	**A**	**A**	**A**	**B**	**B**
4	Zoned land use	**A**	**A**	**A**	**B**	**B**
5	Cowardin class	**B**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Potentially sensitive to secondary effects	Potentially sensitive to secondary effects	Potentially sensitive to secondary effects	Potentially sensitive to secondary effects	Potentially sensitive to secondary effects

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**IP-A**: Consolidated Pine property, west of buildings	**IP-B**: Consolidated Pine property, east of Garden Road	**IP-C**: Industrial Park at west end of Industrial Park Road	**RG-A**: Large pasture north of Lomata at Garden Road	**RG-B**: Ryegrass drainages and ponds
	Enhancement potential					
1	Assessment results	**A**	**A**	**A**	**A**	**A**
2	Tillage or compaction	**B**	**B**	**B**	**A**	**A**
3	Source of water	**B**	**B**	**B**	**B**	**B**
4	Hydrology restored	**C**	**C**	**C**	**C**	**A**
5	Area in acres	**A**	**C**	**C**	**B**	**A**
6	Sensitivity to effects	**C**	**B**	**B**	**B**	**B**
	Assessment Descriptor	Potential for enhancement	Potential for enhancement	Potential for enhancement	Can be enhanced	Can be enhanced
	Education					
1	Open to public	**A**	**A**	**A**	**A**	**C**
2	Visible hazards	**B**	**B**	**B**	**A**	**B**
3	Fish and wildlife study	**B**	**B**	**B**	**B**	**C**
4	Access to other habitats	**C**	**C**	**C**	**B**	**B**
5	Public access within 250'	**A**	**B**	**B**	**A**	**A**
6	Difficult access	**C**	**C**	**C**	**C**	**A**
	Assessment Descriptor	Potential for educational use	Potential for educational use	Potential for educational use	Wetland has educational value	Potential for educational use
	Recreation					
1	Public access within 250'	**C**	**C**	**C**	**C**	**C**
2	Boat launch	**C**	**C**	**C**	**C**	**B**
3	Maintained trails	**C**	**C**	**C**	**C**	**C**
4	Non-consumptive use	**B**	**B**	**B**	**B**	**B**
5	Fishing allowed	**B**	**B**	**B**	**B**	**A**
6	Hunting allowed	**B**	**B**	**B**	**B**	**A**
	Assessment Descriptor	Not appropriate for recreational activities	Not appropriate for recreational activities	Not appropriate for recreational activities	Not appropriate for recreational use	Has potential for recreational use

Wetland Assessment Questions: Answer Sheet						
	Wetland Identifier	**IP-A**: Consolidated Pine property, west of buildings	**IP-B**: Consolidated Pine property, east of Garden Road	**IP-C**: Industrial Park at west end of Industrial Park Road	**RG-A**: Large pasture north of Loamata at Garden Road	**RG-B**: Ryegrass drainages and ponds
	Aesthetic Quality					
1	Cowardin classes	**B**	**B**	**B**	**B**	**A**
2	General appearance	**C**	**C**	**C**	**C**	**B**
3	Surrounding area	**A**	**B**	**B**	**B**	**B**
4	Odors present	**B**	**B**	**B**	**A**	**A**
5	Noises audible	**B**	**C**	**C**	**B**	**B**
	Assessment Descriptor	Potentially pleasing	Considered not pleasing	Considered not pleasing	Potentially pleasing	Potentially pleasing

APPENDIX I

FUNCTION & CONDITION SUMMARY SHEET FOR THE OREGON METHOD

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***OC-A: Stearns Land Co. and Purcell Properties, East of Town, Ochoco Creek***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Proximity to Ochoco Creek. Scrub/shrub, emergernt wetland potentially provides habitat for large number of wetland species
Fish habitat	Potentially contributes to fish habitat	Proximity to fish-bearing Ochoco Creek.
Water quality	Provides water-quality benefits	Proximity to Ochoco Creek. May retain floodwater. Dense vegetation may take up nutrients and filter runoff from adjacent agricultural fields.
Hydrologic control	Potential to provide hydrologic control	Located within Ochoco Creek 100 year flood plain, may store floodwater. Supports >70 percent cover of scrub/shrub species.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Potential for enhancement	Soils appear disturbed, dredge spoils evident on-site. Large area of agricultural open space adjoins wetland.
Education	Potential for educational use	No visible safety hazards. Public access can be created.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist.
Aesthetic quality	Considered pleasing	Visual detractors, if any, easily removed. Some traffic noises audible.
Narrative description of overall wetland functions and conditions		
Located along Ochoco Creek east of town in agricultural field. Palustrine, scrub/shrub, and emergent wetland complex seasonally flooded or saturated (PSSC and PEMC) wetland, PSSC dominated by sandbar willow (*Salix exigua.*), over reed canarygrass (*Phalaris arundinacea*). PEMC dominated by American bulrush (*Scirpus americanus*) and rabbitfoot polypogon (*Polypogon monspeliensis*). Located within 100-year floodplain. Audible noises limited some traffic and natural sounds. Natural odors only.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***OC-B: Ochoco Lumber, Behind Diversion Dam***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Adjacent to Ochoco Creek. Palustrine, emergent wetland potentially provides habitat for wetland species. Birds observed on-site.
Fish habitat	Potentially contributes to fish habitat	Adjacent to fish-bearing Ochoco Creek.
Water quality	Provides water-quality benefits	Adjacent to Ochoco Creek. May retain floodwater. Dense vegetation may take up nutrients and filter runoff from adjacent agricultural fields.
Hydrologic control	Provides hydrologic control	Located within Ochoco Creek 100 year flood plain, may store floodwater. Supports >70 percent cover of scrub/shrub species.
Sensitivity to impact	Sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district. Zoned industrial.
Enhancement potential	Potential for enhancement	Large areas of wood-waste fill adjacent to wetland. Site adjacent to Ochoco Creek.
Education	Not appropriate for educational use	Active log yard adjacent to wetland creates safety hazard.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist. Active log yard adjacent to wetland.
Aesthetic quality	Considered not pleasing	Visual detractors not easily removed. Continuous industrial noises present.

Narrative description of overall wetland functions and conditions

Located behind diversion dam on Ochoco Creek east of town in Ochoco Lumber log yard. Palustrine, emergent wetland permanently flooded (PEMH) wetland, dominated by narrow-leaf cattail *(Typha latifolia)*, reed canarygrass (*Phalaris arundinacea*), and water-fern (*Azolla mexicana*). Located within 100-year floodplain. Active log yard adjacent to wetland creates safety hazard which deters from educational, recreational, and aesthetic qualities.

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***OC-C East Bank of Ochoco Creek, at Flegal Trucking***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Proximity to Ochoco Creek, emergent wetland species may provide cover
Fish habitat	Potentially contributes to fish habitat	Proximity to Ochoco Creek. Fish species observed in creek.
Water quality	Provides water-quality benefits	Proximity to Ochoco Creek. May retain floodwater. Dense vegetation may take up nutrients and filter runoff from adjacent commercial activities.
Hydrologic control	Provides hydrologic control	Located within Ochoco Creek 100 year flood plain, may store floodwater.
Sensitivity to impact	Sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Can be enhanced	Soils appear not too disturbed, but some fill is present.
Education	Potential for educational use	Small wetland of limited educational value. Public access can be created. Adjacent truck traffic creates safety hazard.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist. Adjacent truck traffic creates safety hazard.
Aesthetic quality	Considered not pleasing	Wetland borders commercial development, traffic and commercial activity noises audible

Narrative description of overall wetland functions and conditions

Small wetland adjacent to Ochoco Creek located in 100-year floodplain. Palustrine, emergent, seasonally flooded or saturated (PEMC) wetland, dominated by reed canarygrass (*Phalaris arundinacea*). Some evidence of fill material and dredge spoils form Ochoco Creek. Wetland borders commercial development. Traffic and commercial activity noises audible. Adjacent truck traffic creates safety hazard.

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***OC-D: City Property by Ochoco Creek, South Industrial Park***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Proximity to Ochoco Creek, with year-round water supply.
Fish habitat	Potentially contributes to fish habitat	Proximity to Ochoco Creek.
Water quality	Provides water-quality benefits	Proximity to Ochoco Creek. May retain floodwater. Dense vegetation may take up nutrients and filter runoff from adjacent industrial development.
Hydrologic control	Provides hydrologic control	Located within Ochoco Creek 100 year flood plain, may store floodwater.
Sensitivity to impact	Sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Can be enhanced	Soils appear to be disturbed. Wetland currently provides habitat for some species. Dredge material located on-site.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. No safety hazards exist on-site.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist.
Aesthetic quality	Considered not pleasing	Visual detractors can not be easily removed. Unnatural odors dominate site. Limited amount of traffic noise and commercial activity noises audible.
Narrative description of overall wetland functions and conditions		
Narrow wetland adjacent to Ochoco Creek, located in 100-year floodplain between fill in industrial park and dredge spoils. Palustrine, emergent, seasonally flooded or saturated (PEMC) wetland, dominated by reed canarygrass (*Phalaris arundinacea.*). Limited traffic noise and commercial activity noises audible. No trails or public access exists at this time. Safety hazards exist due to proximity of industrial park.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***OC-E: Ochoco Creek at Green Acres Mobile Home Park***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Proximity to Ochoco Creek, with year-round water supply.
Fish habitat	Potentially contributes to fish habitat	Proximity to Ochoco Creek.
Water quality	Potential to provide water-quality benefits	Proximity to Ochoco Creek. May retain floodwater. In portion of wetland, vegetation replaced by mowed lawn
Hydrologic control	Provides hydrologic control	Located within Ochoco Creek 100 year flood plain, may store floodwater.
Sensitivity to impact	Sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Potential for enhancement	Soils not compacted or tilled. Wetland currently provides habitat for some species. Wetland receives water from Ochoco Creek.
Education	Potential for educational use	Public access can be created with permission of owners. Wetland provides habitat for some species. No safety hazards exist on-site.
Recreation	Potential for recreational activities	Fishing allowed in Creek. Boat launch does not exist, hunting prohibited, trail system does not exist. Access could be created.
Aesthetic quality	Considered not pleasing	Visual detractors not easily removed. Limited amount of traffic noise and commercial activity noises audible.
Narrative description of overall wetland functions and conditions		
Narrow palustrine, emergent, seasonally flooded or saturated (PEMC) wetland adjacent to Ochoco Creek, located in 100-year flood-plain. Area in mobile home park is landscaped and maintained. Unmaintained area to south dominated by reed canarygrass (*Phalaris arundinacea.*). Traffic noise and commercial activity noises audible. No trails or public access exists at this time. Fishing allowed in Ochoco Creek.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***BB-A: Barnes Butte Drainage Swale, Below Reservoir***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Large PEM wetland. Wetland/ upland border moderately interspersed. Deer observed resting on-site.
Fish habitat	Potentially contributes to fish habitat	Although no fish species are present, 100 percent of shoreline is vegetated which provides food source and cover.
Water quality	Provides water-quality benefits	Large wetland with dense vegetation may take up nutrients and trap sediment runoff from adjacent agricultural activities.
Hydrologic control	Potential to provide hydrologic control	Large wetland with evidence of flooding and ponding evident on-site. Located upstream of residential area.
Sensitivity to impact	Sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district. Located near proposed residential development.
Enhancement potential	Potential for enhancement	Wetland currently provides habitat for some species. Large wetland and surrounding open space area.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. No evident safety hazards.
Recreation	Potential for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist Opportunities for nonconsumptive uses present.
Aesthetic quality	Considered pleasing	Wetland provides significant contrast to surrounding landscape. Audible noises limited to natural sounds. Natural odors only.
Narrative description of overall wetland functions and conditions		
Large wetland located along outfall of Barnes Butte Reservoir. Palustrine, emergent, seasonally flooded or saturated (PEM) wetland, dominated by common cattail (*Typha latifolia.*), American bulrush (*Scirpus americanus*) and Baltic rush (*Juncus balticus*). Wetland provides significant contrast to surrounding landscape. Audible noises limited to natural sounds. Natural odors only. Located adjacent to proposed housing development.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***CR-A: Kennedy Property, Irrigation Induced, Wet Pasture Below Diversion Canal***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Emergent wetland in saturated agricultural. field.
Fish habitat	Not Applicable	No associated stream, lake, or pond..
Water quality	Potential to provide water-quality benefits	Evidence of ponding exists. Dense vegetation may take up excess nutrients from agricultural activities.
Hydrologic control	Potential to provide hydrologic control	Outside the 100-year flood-plain. Evidence of ponding on-site.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Potential for enhancement	Soils are disturbed from agricultural activity. Large area of agricultural open space adjoins wetland.
Education	Potential for educational use	Provides habitat for some species. Public access can be created with owner's permission.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, trail system does not exist.
Aesthetic quality	Potentially pleasing	Unnatural odors present. Some traffic noises audible.
Narrative description of overall wetland functions and conditions		
Large irrigation induced, palusterine, emergent, seasonally flooded or saturated (PEMC) wetland located in agricultural field. Water source is seepage from Diversion Canal. Vegetation dominated by planted agricultural species and hydrophytic vegetation such as silverweed (*Potentilla anseriana*) and spikerush (*Eleocharis sp.*). Dense vegetation may take up excess nutrients and pollutants from agricultural activities. Audible noises limited some traffic and natural sounds. Unnatural odors present.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***CR-B: Kennedy Ranch, Pond/Drainage Swale***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Emergent vegetation with man-made open-water pond adjacent to wetland.
Fish habitat	Potentially contributes to fish habitat	Low fish habitat potential of pond.
Water quality	Potential to provide water-quality benefits	Evidence of flooding or ponding exists. Dense vegetation may take up excess nutrients and pollutants from agricultural activities.
Hydrologic control	Potential to provide hydrologic control	Large wetland with evidence of flooding or ponding on-site.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Potential for enhancement	Soils are compacted from agricultural activity. Large area of open space adjoins wetland.
Education	Potential for educational use	Provides habitat for some species. Public access can be created.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, trail system does not exist.
Aesthetic quality	Potentially pleasing	Unnatural odors present. Some traffic noises audible.

Narrative description of overall wetland functions and conditions

Large wetland located in drainage of the Crooked River south of town in agricultural field. Palustrine, emergent, seasonally flooded or saturated (PEMC) wetland, dominated by American bulrush (*Scirpus americanus*). Adjacent man-made pond contributes to habitat potential. Dense vegetation may take up excess nutrients and pollutants from agricultural activities. Audible noises limited some traffic and natural sounds. Unnatural odors present.

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***CR-C: Meadow Lakes Golf Course, Emergent Wetland***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Proximity to Crooked River, with year-round water supply.
Fish habitat	Potentially contributes to fish habitat	Proximity to Crooked River. Fish species observed in creek.
Water quality	Potential to provide water-quality benefits	Proximity to Crooked River. May retain floodwater. Dense vegetation may take up nutrients and filter runoff from golf course
Hydrologic control	Provides hydrologic control	Located within Crooked River 100 year flood plain, may store floodwater.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Potential for enhancement	Soils appear not to be disturbed. Wetland currently provides habitat for some species. Wetland receives water from perennial stream.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. Golf may create safety hazard.
Recreation	Potential to provide recreational activities	Boat launch does not exist, hunting prohibited, fishing allowed in Crooked River. Trail system exists at Golf Course. Could be modified to include wetland.
Aesthetic quality	Potentially pleasing	Visual detractors, if any, can be easily removed. No unnatural odors present. Limited amount of traffic noise audible.
Narrative description of overall wetland functions and conditions		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***CR-D: East bank of Crooked River, Meadow Lakes Estates***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Proximity to Crooked River, with year-round water supply.
Fish habitat	Potentially contributes to fish habitat	Proximity to Crooked River. Fish species observed in creek.
Water quality	Provides water-quality benefits	Proximity to Crooked River. May retain floodwater. Dense vegetation may take up nutrients and filter runoff from adjacent residences.
Hydrologic control	Provides hydrologic control	Located within Crooked River 100 year flood plain, may store floodwater. Evidence of flooding and ponding exists at site.
Sensitivity to impact	Sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Potential for enhancement	Soils appear not to be disturbed. Wetland currently provides habitat for some species. Wetland receives water from perennial stream.
Education	Wetland has educational use	Public access can be created. Wetland provides habitat for some species. No safety hazards exist on-site.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist.
Aesthetic quality	Considered pleasing	Visual detractors, if any, can be easily removed. No unnatural odors present. Limited amount of traffic noise audible.
Narrative description of overall wetland functions and conditions		
Long but narrow wetland adjacent to Crooked River, located in 100-year floodplain. Palustrine, emergent, seasonally flooded or saturated (PEMC) wetland, dominated by by American bulrush (*Scirpus americanus*) and bentgrass (*Agrostis sp.*). No evidence of fill in soil. New residential development near wetland. Limited traffic noises audible. No trails or public access exists at this time. No safety hazards.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***IP-A: Consolidated Pine Property, West of Buildings***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Large wetland dominated by emergent vegetation with some open water. Wetland/ upland border moderately interspersed.
Fish habitat	Potentially contributes to fish habitat	Although no fish species present, 100 percent of shoreline of small pond is vegetated which provides food source and cover.
Water quality	Potential to provide water-quality benefits	Large wetland with dense vegetation may take up nutrients and filter runoff from adjacent industrial development.
Hydrologic control	Potential to provide hydrologic control	Located within Ochoco Creek 100-year flood-plain, may store floodwater. Evidence of flooding and ponding evident on-site.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district. Located near industrial development.
Enhancement potential	Potential for enhancement	Soils show signs of compaction. Wetland currently provides habitat for some species. Large wetland and surrounding open space area.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. Nearby industrial development create safety hazards.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, hunting prohibited, trail system does not exist.
Aesthetic quality	Potentially pleasing	Wetland provides significant contrast to surrounding landscape. Limited amount of traffic and commercial activity noises audible.
Narrative description of overall wetland functions and conditions		
Large wetland located in Ochoco Creek 100-year floodplain between north of industrial park development. Palustrine, emergent, seasonally flooded or saturated (PEMC) wetland, dominated by common cattail (*Typha latifolia.*), American bulrush (*Scirpus americanus*) and salt grass (*Distichilis spicata*). Limited traffic noise and commercial activity noises audible. No trails or public access exists at this time. Safety hazards exist due to proximity of industrial park.		

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***IP-B: Consolidated Pine Property, East of Garden Road***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Small wetland dominated by emergent vegetation with some open water.
Fish habitat	Potentially contributes to fish habitat	Limited value to fish.
Water quality	Potential to provide water-quality benefits	Wetland vegetation may filter runoff from adjacent industrial development.
Hydrologic control	Potential to provide hydrologic control	Evidence of ponding evident on-site. Located in Industrial site where value of flood water retention increases.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district. Located in industrial development.
Enhancement potential	Potential for enhancement	Soils show signs of compaction. Wetland currently provides habitat for some species. Large wood-waste fills adjacent to wetland.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. Nearby industrial development creates safety hazards.
Recreation	Not appropriate for recreational activities	Boating, fishing, hunting opportunities do not exist. Nearby industrial development creates safety hazards.
Aesthetic quality	Considered not pleasing	Wetland provides limited contrast to surrounding landscape. Visual detractors cannot be removed easily.

Narrative description of overall wetland functions and conditions

Small palustrine, emergent, seasonally flooded or saturated (PEMC) wetland located adjacent to Garden Road on Consolidated Pine Property. Dominated by narrow-leaf cattail (*Typha latifolia*). Large areas have been filled. Traffic and industrial noise audible. Large wood-waste fills adjacent to wetland. No trails or public access exists at this time. Safety hazards exist due to proximity of industrial park.

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***IP-C: Industrial Park, West Terminus of Industrial Park Road***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Small wetland dominated by emergent vegetation.
Fish habitat	Not Applicable	No associated stream, lake or pond.
Water quality	Potential to provide water-quality benefits	Small wetland with dense vegetation may take up nutrients and filter runoff from adjacent industrial development.
Hydrologic control	Potential to provide hydrologic control	Evidence of ponding evident on-site. Located in Industrial site where value of flood water retention increases.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district. Located in industrial development.
Enhancement potential	Potential for enhancement	Soils show signs of compaction. Wetland currently provides habitat for some species. Large fills adjacent to wetland.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. Nearby industrial development creates safety hazards.
Recreation	Not appropriate for recreational activities	Boating, fishing, hunting opportunities do not exist. Nearby industrial development creates safety hazards.
Aesthetic quality	Considered not pleasing	Wetland provides limited contrast to surrounding landscape. Visual detractors cannot be removed easily.

Narrative description of overall wetland functions and conditions

Small palustrine, emergent, seasonally flooded or saturated (PEMC) wetland located at the west terminus of Industrial Park Road. Outer area of wetland determined to be irrigation induced. Central area, dominated by narrow-leaf cattail (Typha latifolia), determined to be natural wetland. Natural wetland less than 1.0 acre in size. Large areas have been filled. Ruderal species dominate wetland on Industrial Park. Off-site vegetation dominated by Baltic rush (*Juncus balticus*), American bulrush (*Scirpus americanus*), and foxtail barley (*Hordeum jubatum*). Traffic and industrial noise audible. No trails or public access exists at this time. Safety hazards exist due to proximity of industrial park.

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***RG-A: Large Pasture, North of Lamonta at Garden Road***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Emergent wetland in saturated agricultural. field.
Fish habitat	Not Applicable	No associated stream, lake, or pond.
Water quality	Provides water-quality benefits	Dense vegetation may take up excess nutrients from agricultural activities.
Hydrologic control	Provides hydrologic control	Outside the 100-year flood-plain. Large size, fully vegetated with evidence of ponding on-site.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Can be enhanced	Soils are likely disturbed by agricultural activity. Large area of agricultural open space adjoins wetland.
Education	Wetland has educational value	Provides habitat for some species. Public access can be created with owner's permission.
Recreation	Not appropriate for recreational activities	Boat launch does not exist, trail system does not exist. No hunting or fishing opportunities.
Aesthetic quality	Potentially pleasing	Unnatural odors present. Some traffic noises audible.

Narrative description of overall wetland functions and conditions

Permission was not granted to enter this property. Large palustrine, emergent, seasonally flooded or saturated (PEMC) wetland located in agricultural field. At least one artesian well on-site. Vegetation dominated by planted agricultural species. Some areas support hydrophytic vegetation such as narrow-leaf cattail (*Typha latifolia*) and hardstem bulrush (*Scirpus acutus*). Dense vegetation may take up excess nutrients and pollutants from agricultural activities. Audible noises limited some traffic and natural sounds.

Function & Condition Summary Sheet for the Oregon Method

Wetland Identification: ***RG-B: Ryegrass Drainages and Ponds***

Function	Evaluation Descriptor	Rationale
Wildlife habitat	Provides habitat for some species	Large PEM/POW wetland complex. Wetland/ upland border moderately interspersed.
Fish habitat	Potentially contributes to fish habitat	POW wetlands present that are permanently flooded. Shorelines completely vegetated. Fish observed in ponds.
Water quality	Provides water-quality benefits	Large wetland with dense vegetation may take up nutrients and trap sediment runoff from adjacent agricultural activities.
Hydrologic control	Potential to provide hydrologic control	Large wetland complex with ponds and saturated soils evident on-site. Located upstream of industrial area. Pond outlets all restricted.
Sensitivity to impact	Potentially sensitive to secondary effects	Local hydrology altered through channelization, and diking. Active irrigation district.
Enhancement potential	Wetland can be enhanced	Wetland currently provides habitat for some species. Large wetland with large surrounding open space area.
Education	Potential for educational use	Public access can be created. Wetland provides habitat for some species. No evident safety hazards.
Recreation	Has potential for recreational activities	Boat launch does not exist, trail system does not exist Opportunities for fishing and nonconsumptive uses present.
Aesthetic quality	Potentially pleasing	Some traffic and industrial noises audible. Limited contrast with surrounding landscape.

Narrative description of overall wetland functions and conditions

Large palustrine, emergent, seasonally flooded or saturated (PEMC) and palustrine, open water, permanently flooded (POWH) wetland located within to convergent drainages. Vegetation dominated by Nebraska sedge (*Carex nebraskensis*), Dutch clover (*Trifolium repens*), and American bulrush (*Scirpus americanus*). Opportunities for fishing and nonconsumptive uses present. Some traffic and industrial noises audible.

FAX TRANSMITTAL

Dana Field, Wetlands Planner

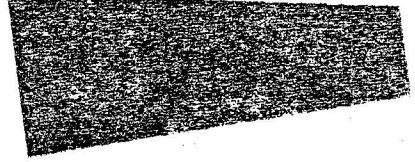
Division of State Lands
775 Summer St. NE
Salem, OR 97310-1337

Phone: (503) 378-3805 ext. 238
FAX: (503) 378-4844
email: Dana.Field@dsl.state.or.us

To: Nicole Peirce FAX:

Date: 2/13/03 Number of Pages including cover: 5

Message: 4 pages from Prineville LWI per your request. Sounds like ponds were excavated in historic wetland..



WETLAND SUMMARY SHEET

Wetland Code: IP-A **Date of Field Determination:** 7/20, 9/1/94

** denotes offsite determination*

Wetland Data Points: IP-1 to IP-5

Location:

Tax Lot: 1700, map 14-16-31B

Other: Consolidated Pine property, west of buildings

Classification:

Cowardin: PEMC **NWI:** PEMC

Soil:

Series: Boyce silt loam

Color: 10YR 3/1

Hydrologic Basin: Ochoco Creek, Deschutes Basin

Size (acres): 18.32

Dominant Plant Community:

Tree Strata	Shrub Strata	Herbaceous Strata
		Typha latifolia
		Scirpus americanus
		Distichilis spicata
		Hordeum jubatum
		Lepidium latifolium
		Trifolium repens

Comments: Large palusterine emergent wetland located in Industrial Park area. Hydrology apparently derived from seeps and surface intersection with groundwater. Large areas of fill border wetland.

PEMC: Palusterine, emergent, seasonal
PEMA: Palusterine, emergent, temporary
PSSC: Palusterine, scrub/shrub, seasonal
PSSA: Palusterine, scrub/shrub, temporary
PUBFh: Palusterine, unconsolidated bottom, semipermanent, diked/impounded
R2UBH: Riverine, lower perrenial, unconsolidated bottom, diked/impounded
R3UBH: Riverine, upper perrenial, unconsolidated bottom, diked/impounded

on Consolidated Pine property, south of the buildings (**IP-A**). The soil of this 18.32-acre PEMC wetland is a very dark gray (10YR 3/1) mucky loam to silt loam. The soil was saturated to the surface with ponded areas evident. Narrow-leaf cattail, poison hemlock (*Conium maculatum*), and broad-leaved pepperweed (*Lepidium latifolium*) dominate the site. Southern areas of the wetland are grazed and the vegetation is dominated by inland saltgrass. To the north and west the area has been filled with wood waste debris.

Wetland **IP-B** is located northwest of IP-1, immediately east of Garden Road. To the east the area has been filled with wood waste. Undoubtedly this wetland and Wetland IP-1 were at one time one wetland. Narrow-leaf cattail dominates this 0.34-acre PEMC wetland. Water was observed at the surface.

Wetland **IP-C** is located at the west end of Industrial Park Road. Much of this area has been covered with large, recent fills. Where vegetated, weedy, ruderal species dominate this 2.55-acre PEMC wetland. These include field pennycress (*Thlaspi arvense*), Canada thistle (*Cirsium arvense*), and clasping pepperweed (*Lepidium perfoliatum*). Narrow-leaf cattail dominates the central portion of this wetland. Soils are a gray (10YR 5/1) to a very dark gray (10YR 3/1) clay loam, saturated at a six-inch depth. Immediately north of the Industrial Park in undisturbed areas, the vegetation is dominated by such hydrophytic species as foxtail barley, Baltic rush, Nebraska sedge, and American bulrush. The narrow-leaf cattail dominated area, less than 1.0 acre in size, was determined to be a natural wetland. The area dominated by ruderal species was determined to be an irrigation induced wetland.

Table 2 summarizes wetland type and wetland acreages found within the study area.

Table 2
Wetland Acreages

Wetland Identifier	Wetland Classification	Wetland Acreage
OC-A	PSSC	10.32
OC-B	PEMC	4.54
OC-C	PEMC	0.63
OC-D	PEMC	0.34
OC-E	PEMC	0.88
CR-A	PEMC	14.63
CR-B	PEMC	11.88
CR-C	PEMC	0.89
CR-D	PEMC	1.06
BB-A	PEMC	77.25
RG-A	PEMC	18.86
RG-B	PEMC	42.24
IP-A	PEMC	18.32
IP-B	PEMC	0.34
IP-C	PEMC	2.55
Total		204.73

BARNES BUTTE

One large continuous 77.25-acre PEMC wetland (**BB-A**) extends from Barnes Butte Reservoir and trends southwest to its terminus at Main Street south of the Nursery property. Barnes Butte Reservoir is a palustrine, open water, permanently flooded wetland (POWH). Water passing through the base of the dam forms a perennial creek with an associated saturated broad swale dominated by foxtail barley, American bulrush, clustered field sedge (*Carex praegracilis*), Baltic rush, narrow-leaf cattail, spike bentgrass, annual bluegrass (*Poa annua*), and Kentucky bluegrass. A lobe of this wetland extends east from the main swale. Hydrology in this portion of the wetland is derived from subsurface seepage from an irrigation canal located to the east. As distance from the Barnes Butte Reservoir increases, the width of the saturated soil band decreases until only the creek channel supports wetland hydrology and vegetation. Immediately east of Main Street the wetland is confined to the channel, dominated by narrow-leaf cattail. Soils in the wetland are mainly a dark gray (10YR 4/1) to a very dark gray (10YR 3/1) sandy loam to loamy sand.

RYEGRASS CANAL

RG-A is an 18.86-acre PEMC wetland located in an agricultural field north of Lamonta Road at the intersection with Garden Road. Permission was not granted to enter this property for conducting this study. So wetland characteristics were determined from off-site observations, aerial photographs, and previous geotechnical studies (Centuary West Engineering, 1988). The geotechnical study documents the occurrence of at least one artesian well on the property. Narrow-leaf cattail and hardstem bulrush, both OBL species, are clearly visible from the roadside.

RG-B is a 42.24-acre PEMC wetland found in the two drainages forming the Ryegrass Drainage. Both forks of the drainage have been dammed creating POW wetlands hydrologically connected to the adjacent PEMC wetland. The north fork has been dammed in at least two locations creating a series of ponds. Water draining from the ponds creates a narrow perennial stream. Saturated fields are associated with this drainage. These are dominated by a mixture of planted upland species and hydrophytic volunteer species such as American bulrush and foxtail barley. The mottled very dark gray (10YR 3/1) loam was saturated either to the surface or within ten inches of the surface. The east fork is dominated by Nebraska sedge and Dutch clover. Water from both drainages enters Ryegrass Canal. A small area west of the canal is included in this wetland. Water seeping from the canal creates the hydrology for this portion of the wetland.

INDUSTRIAL PARK

The Industrial Park is located downslope from the Ryegrass Drainage and the property containing the artesian well. Prior to construction of Ryegrass Canal, which intercepts Ryegrass Drainage water, this entire area would likely have been wetland. Past and recent fills now cover much of this area. A large area that retains wetland characteristics is located

occurs, and seeps from the extensive system of irrigation canals and dam impoundments found throughout the area. Saturated soils were found adjacent to Ochoco Creek and the Crooked River, often located in impoundments created by placement of dredge-spoils. These areas were usually long and narrow, running parallel to the course of the waterbody. Large areas with positive wetland hydrology were created by seeps from the extensive system of irrigation canals which cross the study area in many locations. These areas are mainly agricultural fields located downslope from the canal.

The two main drainages, generally trending southwest, pass through the study area. The origins of the drainage are outside the study area to the northeast. Barnes Butte Drainage has been dammed with the resultant impounded waterbody known as Barnes Butte Reservoir. Water passes through the base of the dam forming a perennial creek and also saturates a broad southwest-trending swale. As distance from the dam increases, the width of the saturated soil band, on either size of the drainage, decreases until only the creek channel supports wetland hydrology.

The second drainage, Ryegrass Drainage, has a north and east fork before their convergence just northeast of the Ryegrass Canal. The north fork has been dammed in at least two locations creating a series of ponds. Water outfalls from an overflow culvert creating a perennial stream and associated saturated field. The east fork has also been dammed creating a pond supplying water downslope. Ryegrass Canal intercepts downslope flow from this drainage. Below the canal subsurface seepage saturates a small area of the downslope agricultural field.

Ponded and saturated soils are located in the Industrial Park area, on both sides of Garden Road. Hydrology in this area is apparently derived from seeps and ground surface intersection with the watertable. According to area residents, a slough once passed through this area, but extensive fills have apparently permanently altered wetland hydrology.

Soils

Soils observed within the study area closely matched the descriptions in the soil survey (SCS, 1966). Boyce soils (Boyce silt loam, Boyce silt loam ponded, and Boyce loam) were located in each of the main drainages as mapped by SCS. These soils were usually a very dark gray (10YR 3/1) silt loam extending beyond 18 inches. Other soils encountered during the course of the study include Powder silt loam, Powder sandy loam, Powder fine sandy loam, Powder gravely loam, Stearns-Crooked complex, Crooked sandy loam, Stearns silt loam, Prineville sandy loam, Prineville gravely sandy loam, Ayres and Ochoco sandy loam, Metolius sandy loam, Courtrock gravely sandy loam and Riverwash. These soils all occurred in uplands except for Metolius sandy loam in an agricultural field saturated by water seeping from Ryegrass Canal.

ODF&W person Kevin SEA
Ron Davis - NRCS 447-4214 Prineville

BBA = Hudspeth Lake — lake w/ H2O yr-round H2O never just puddles

stocked w/bass, trout, catfish.

THE FINAL TALLY.....FATE OF THE WETLANDS IN LSW TEST FOR **PRINEVILLE**

Wetland #	Acres	IN	OUT	Still Unknown	WHY/ COMMENTS
OC-A	10.32	X			High in Water Quality, on Ochoco Creek
OC-B	4.54	X			High in Water Quality & Hydrologic Control, on Ochoco Crk
OC-C	0.63	X			High in Water Quality & Hydrologic Control, on Ochoco Crk
OC-D	0.34	X			High in Water Quality & Hydrologic Control, on Ochoco Crk (we double-checked this because it's so tiny, but it scored this way, fed by a water quality-limited stream) near industrial park,
OC-E	0.88	X			High in Hydrologic Control; Medium in Water Qual & adj. to Ochoco; possibly in floodway.
CR-A	14.63		X		Although irrigation-induced, it did not meet the "Out" criteria because > 1 acre; neither did it meet any significance criteria, despite its size.
CR-B	11.88	when highest flow, drains through culvert to Juniper Canyon Flood Control district - rest of the yr it is retained standing H2O in spring then sinks in/dries out over season.		X 300-800 ft.	Unsure whether it "borders" or is adj. to Crooked River, which is water quality-limited yes, it serves a H2O Qual role around ¼ mile away from C. River
CR-C	0.89	X			Although in a golf course, it is a natural emergent wetland and therefore did not meet that "out" criterion. High in Hydrologic Control; Medium in Water Qual & connected to Crooked River; in floodway.
CR-D	1.06	X			High in Water Quality & Hydrologic Control
BB-A Hudspeth Lake	77.25	X	— privately owned lake for the Hudspeth family		High in Water Quality; and although huge, it doesn't seem to meet other criteria. more habitat - waterfowl nesting
RG-A	18.86	X			High in Water Quality and Hydrologic Control; in floodplain but not floodway
RG-B	42.24	X			High in Water Quality; dammed up so doesn't meet the Hydrologic Control criterion. doesn't really drain into anything
IP-A	18.32	X			Medium in Water Quality & adj. to Ochoco Creek
IP-B	0.34		X		Doesn't meet any significance criteria.
IP-C	2.55		X		Doesn't meet any significance criteria
Total #		**11**	**3**	**1**	11 significant out of 15 = **73%**
Total acreage	**204.73**	**175.33**	**17.52**	**11.88**	175.33/204.73 total = **85.64%** significant (Remember, ONE 77-acre site accounts for 38% of the wetland acreage in Prineville!)

private land in ag field, in floodplain

owned by Ochoco Lumber near wood-waste fills

owned by Flegel Trucking

city-owned

Mobile home park

Kennedy property wet pasture

Kennedy property pond/drainage swale hydric soils confirmed PEMC wetld

Golf course natural emergent wetland

New Meadow Lakes Estates has not negatively affected wetld below Barnes Butte Reservoir

wet pasture

pasture w/ drainage dammed up in places

Industrial Park wetld bordered by fill

same as above

industrial pk, ruderal sp, recent disturbance

From Betsy Parry's Review of applying Significant wetld criteria to Prineville.