Local Wetlands Inventory for the City of Sandy

Prepared for

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TABLE OF CONTENTS

List of Figures

1.0 INTRODUCTION

In May 1995, the City of Sandy was awarded a Technical Assistance Grant by the Oregon Department of Land Conservation and Development (DLCD) to conduct a Local Wetlands Inventory (LWI) within the City's Urban Growth Boundary (UGB). In May 1995, the City of Sandy entered into a contract with SRI/SHAPIRO/AGCO, Inc. to conduct the inventory. (The project area is shown on Figure 1.)

This report documents the methodology and results of the LWI, and the results of a functions and conditions assessment performed on the wetlands identified through the LWI.

2.0 SOURCE DOCUMENTS

2.1 U.S. Army Corps Of Engineers Wetlands Delineation Manual

The main source document used in the investigation was the *Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1* (Environmental Laboratory, 1987). This manual is now recognized by the Oregon Division of State Lands (DSL) and by the U.S. Army Corps of Engineers (COE) for the determination and delineation of wetlands within Oregon.

As provided in the manual, the accepted definition of wetland used by the COE in implementing Section 404 of the Clean Water Act and by the DSL in administering the Removal/Fill Law is:

> *Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.* (Federal Register, 1982)

The 1987 manual provides technical criteria, field indicators, and recommended procedures for determining whether an area is a jurisdictional wetland. The manual requires that three technical criteria in undisturbed situations be met before areas can be considered wetland under federal or state jurisdiction. These criteria are the presence of hydric soils, hydrophytic vegetation, and wetland hydrology.

2.2 Other Source Documents

Prior to beginning field work, a compilation of available information and data was conducted. This included a review of DSL LWI standards and guidelines, USDA Soil Conservation Service (SCS) soil surveys, U.S.G.S. topographic quadrangles, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps, the FEMA floodway map of unincorporated Clackamas County, the flood map for the City of Sandy, and a recent aerial photo (Northern Light Studios; June 21, 1992) of the study

area. This information was used to develop a preliminary indication of where potential wetland may exist and to facilitate on-site gathering of data.

2.3 Mandatory Wetland Technical Criteria

2.3.1 Hydrophytic Vegetation

Hydrophytic vegetation consists of those plant species that have adapted to growing in substrates that are periodically deficient in oxygen due to saturated soil conditions. Five basic groups of vegetation are recognized based on their frequency of occurrence in wetlands. These categories, referred to as the "wetland indicator status," are as follows: obligate wetland plants (OBL) are estimated to occur almost exclusively in wetlands (>99%); facultative wetland (FACW) plants are estimated to occur 67-99% of the time in wetlands; facultative (FAC) plants occur equally in wetlands and non-wetlands (34-66%); and facultative upland (FACU) plants usually occur in non-wetlands (67-99%). If a species is not assigned to one of the four groups described above, it is assumed to be an obligate upland (UPL) plant, which is estimated to occur almost exclusively in non-wetlands (>99%). In addition, plants designated "NI" have not yet received a wetland indicator status, but are probably not obligate upland.

Species lists of commonly encountered plants and their wetland status have been prepared for all regions of the country by the USFWS (Reed, 1988).

2.3.2 Hydric Soils

Hydric soils are those that in an undrained condition are saturated, flooded, or ponded long enough during the growing season to develop anaerobic (little or no free oxygen) conditions near the surface. Such anaerobic conditions during the growing season affect the production, growth, and survival of plants. Chemically reduced forms of iron, manganese, and sulfur also may be present (primarily in mineral soils); their higher toxicity further affects plant growth.

2.3.3 Wetland Hydrology

The 1987 manual defines wetland hydrology as saturation within a major portion of the root zone (usually above 12 inches) typically between 5% and 12.5% of the growing season, between March 1 and October 31. The wetland hydrology criterion can be met, however, if saturation within the major portion of the root zone is present for only 5% of the growing season depending on the wetland indicator status of the plant community. The growing season for any given site or location is determined from SCS data and information.

2.4 Wetland Field Indicators

2.4.1 Hydrophytic Vegetation

A wide variety of plants exhibit at least some degree of tolerance to saturated soil conditions. Adaptations to such conditions may be both structural and physiological, making few of these features readily observable in the field. Structural adaptations may include a shallow root system or adventitious (above ground) roots, while a physiological adaptation may be the ability to transport oxygen to the root zone (as evidenced by oxidized rhizospheres).

For the purposes of wetland delineation, plants generally considered to be more or less tolerant of saturated soil conditions have been included in the USFWS Region 9 plant list. Exclusively upland plants are not listed. The rating system is not flawless, and species are occasionally found in areas considered to be atypical habitat. Nevertheless, an assemblage of plants with at least a facultative (FAC) rating generally indicates the presence of wetland conditions (provided hydric soils and wetland hydrology indicators also are present). A higher proportion of dominant species rated as facultative wetland (FACW) and obligate wetland (OBL) will more reliably indicate wetland conditions.

2.4.2 Hydric Soils

Readily observable field indicators for hydric soils include gleying and mottling in mineral soils, or an organic upper surface layer (histic epipedon). Occasionally, the presence of a strong sulfur smell (reduced sulfur) in some soils also may indicate prolonged anaerobic conditions as well.

Color strength (chroma) is generally the most reliable indicator of a hydric mineral soil. Soils develop very low chromas (two or less) under saturated oxygen-free conditions. Gleyed soils are visually distinctive, with a grayish color that often is tinged with green or blue. Reduced iron and manganese are readily leached from the soil column under prolonged saturation, accounting for the unsaturated color. Gleying may be uniform to the surface in areas that are inundated year-round, while oxidation in the upper soil layers due to a fluctuating high water table may result in patches of brighter colors called mottles. A mineral soil is considered hydric when the dominant soil matrix chroma is two or less with mottles, or one or less without mottles. Colors are determined in the field with the aid of a Munsell soil color chart.

2.4.3 Wetland Hydrology

The best field indicators of wetland hydrology include the direct observation of standing surface water, soil saturation at or near the surface, or a high ground water table. Due to the seasonal nature of prolonged saturation or inundation in most areas, however, these indicators often are not present. Active oxidized root channels in the upper soil profile provide evidence of physiological adaptation by plants to supply

oxygen to their root systems during anaerobic conditions. Their existence is generally a reliable indicator of prolonged saturation in the root zone during the growing season, given that vegetation is present.

Other indirect indicators include dried-up water channels and depressional areas, dried algal mats, water marks on plants, and water-stained leaves. These may provide adequate evidence of wetland hydrology, if it can be shown that a short-lived flood event (which might cause water marks) was not the only hydrologic activity.

2.5 Local Wetlands Inventory

The 1989 Oregon state legislature authorized the DSL to develop a statewide wetlands inventory suitable for planning and regulatory purposes. Pursuant to ORS 196.674, DSL established LWI standards and guidelines. The purpose of an LWI is to locate, map, and classify wetlands by type (e.g., forested wetlands) over a relatively large geographic area. The approximate boundaries of all wetlands greater than 0.5 acre in size are identified through the inventory.

An approved LWI will replace the NWI maps and be incorporated into the statewide wetlands inventory. Wetlands identified on the NWI maps are located through interpretation of relatively small-scale color infrared aerial photographs (e.g., scale of 1:58,000) with limited "ground truthing" conducted to confirm the interpretations.

An LWI is conducted using color or color infrared aerial photographs taken within five years of the inventory initiation and at a minimum scale of 1 inch = 800 feet. In general, wetlands are located using the on-site option, as described in the LWI Standards and Guidelines (DSL, 1994). In cases where property access is denied, wetlands can be mapped off-site using information such as topographic maps and aerial photographs to aid in locating wetlands. The product of an LWI is a parcel-based map showing the approximate location of wetlands at a minimum scale of 1 inch = 400 feet. The parcel-based map informs the property owner, the local jurisdiction, and the DSL on which tax lots may contain wetland.

2.6 Wetland Functions and Values

2.6.1 Overview

Wetlands were once considered of little value to society. They were seen as breeding grounds for pests and disease and as obstacles to economic development. Many wetlands were drained, filled, and converted to serve other purposes. In recent years, however, there has been an increasing awareness of the values of wetlands. This recognition of wetland functions and values (e.g. wildlife habitat, floodwater storage, natural water treatment) has resulted in the enactment of state and federal laws protecting wetlands.

It also is recognized that the quality of wetlands can vary widely. To determine the value of a wetland, it is necessary to conduct an assessment of the functions it performs. These functions are assessed by measuring physical characteristics such as diversity of vegetation, water storage capacity, shape, size, and location in the landscape. Not all wetland functions are performed equally by each wetland, and it is possible to rank wetlands within an area relative to one another by the degree to which specific functions are performed.

All wetlands have value because they are a composite of certain soils, vegetation, and water. However, some wetlands may provide particular values consistent with the local community's needs, such as encouraging tourism, providing educational opportunities, or being aesthetically pleasing. The evaluation process allows a community to identify these wetlands and develop a management strategy that is consistent with planning goals.

2.6.2 The Oregon Freshwater Wetland Assessment Methodology

To conduct an assessment of the relative quality of a wetland, the *Oregon Freshwater Wetland Assessment Methodology* (OFWAM) was developed by an interagency committee (Roth et al, 1993). The methodology is intended for use by planners, public officials, and community members for planning and educational purposes. Completion of this method provides basic information, which is not intended for evaluation of detailed, site-specific impacts on individual wetlands.

OFWAM is based on the idea that an understanding of wetland system functions and conditions at the local, state, and federal levels is necessary in order to make management decisions. Recommended uses of OFWAM include collection of basic information about wetlands in an assessment area, creation of a database of functions and conditions and other wetland data, support of decision-making and planning within a jurisdiction, and education.

OFWAM requires that the same functions and conditions be evaluated for each wetland within a study area. This does not determine the wetland's overall value. Listed below are the functions and conditions used in OFWAM. This methodology is designed to be open-ended; therefore, this does not represent a complete list. Other functions and conditions may be added later, or some may be dropped if considered unimportant to the user. The functions, as described in OFWAM, are explained below.

Wetland Functions

Wildlife Habitat: Evaluates the habitat diversity for species usually associated with wetlands, without emphasizing one particular species. Wetlands assessed by OFWAM are classified as those that provide diverse habitat for wildlife, provide habitat for some wildlife species, or that do not provide habitat.

Fish Habitat: Evaluates how a wetland contributes to fish habitat in streams, ponds or lakes associated with a wetland. The questions are suitable for both warmwater and coldwater fish and no particular species is emphasized. Wetlands assessed by OFWAM are classified as those that contribute, potentially contribute, or do not contribute to fish habitat.

Water Quality: Evaluates the potential of a wetland to reduce the impacts of excess nutrients in stormwater runoff on downstream waters. Wetlands assessed by OFWAM are classified as those that provide, have the potential to provide, or do not provide water quality benefits.

Hydrologic Control: Evaluates the effectiveness of a wetland to reduce downstream flood peaks and store floodwaters. Wetlands assessed by OFWAM are classified as those that provide, have the potential to provide, or do not provide hydrologic control.

Education: Evaluates the suitability of a wetland to provide educational opportunity and act as an "outdoor classroom." Wetlands assessed by OFWAM are classified as those that have the potential to provide, or be inappropriate for educational uses.

Recreation: Evaluates the suitability of a wetland and associated watercourses for non-powered boating, fishing, and similar recreational activities. Wetlands assessed by OFWAM are classified as those that provide, have the potential to provide, or do not provide recreational opportunities.

Wetland Conditions

Enhancement Potential: Evaluates the suitability of a degraded wetland for enhancement. A wetland providing this condition does not provide one or more of the functions assessed by OFWAM. A wetland fulfilling this condition, therefore, would be of lower overall quality than a wetland providing such characteristics as wildlife habitat or fish habitat.

Aesthetic quality: Evaluates the visual and aesthetic quality of the wetland. Wetlands can be considered pleasing, potentially pleasing, or not pleasing.

Sensitivity to Impact: Evaluates whether a wetland is susceptible to secondary effects of impacts. For example, a wetland that is sensitive to secondary effects is not as resilient to human impacts as a wetland that has already been disturbed, such as agricultural wetlands.

3.0 PROJECT METHODS

3.1 Cartography

The City of Sandy provided AutoCAD drawing files containing section base maps of the study area. These maps included layers for tax lot lines, tax lot numbers, street names, rights-of-way, and section boundaries. The maps were compiled by Curran-McLeod, Inc., the GIS mapping contractor for the city.

Initially, a project base map was created by inserting or tiling together each section map into a single drawing file. Drainage basin boundaries and the UGB, which also is the study area for the LWI project, were added. The base map was then plotted at a scale of 1 inch = 400 feet onto 24 inch x 36 inch sheets.

A color aerial photograph (Northern Light Studios, 1992) was ordered for the study area at a scale of 1 inch = 400 feet to match the scale of the base map. This aerial photograph was covered with clear acetate and permanently registered to protect it during field use and use as a surface on which to make draft wetland boundaries and sample sites. The city provided 2- and 5-foot contour interval topographic maps. These maps were used to identify additional drainageways and to highlight depressional areas. Property access permission denials were located on the base map.

3.2 Information Processing

The approximate boundaries of wetlands and the location of sample sites were drafted on to the aerial photograph in the field. These boundaries were subsequently digitized onto the AutoCAD maps. All wetlands received a unique identification code based on the wetland's drainage basin and the number of wetlands within each basin (e.g., TC-1, CC-4). In general, wetlands that are divided by a culvert received separate codes.

3.3 Wetland Identification and Boundary Determinations

3.3.1 Routine On-Site

Where property access permission had not been denied, on-site observation and inspection of soils, vegetation, and hydrology were made using the "Routine Onsite" method of the manual. One-foot diameter soil pits were excavated to a depth of 18-inches in selected locations. The soil profiles were examined for hydric soils and wetland hydrology field indicators. In addition, a visual percent-cover estimate of the dominant species of the plant community for a 30-foot-radius area was performed using soil pit locations as a center of reference. Data were recorded in the field and subsequently transferred to standard wetland delineation

data sheets (included in Appendix A). Data were collected for representative sampling locations, however, numerous soil pits were excavated between these data points to verify changes in the three parameters.

To the greatest possible extent, wetland areas as small as 0.5 acre were mapped as required in the LWI standards. Wetlands mapped in this study include some that are smaller thatn 0.5 acre. No wetland boundaries were staked and flagged by SRI/SHAPIRO/AGCO for this study.

3.3.2 Routine Off-Site

Where property access permission had been denied or otherwise not explicitly approved, no on-site sampling could be conducted. Therefore, off-site determinations were made on the basis of aerial photographic inspection, available mapped attributes (i.e., field maps), and, where available, a reconnaissance from nearby public access vantage points. Observations from vantage points included documentation of dominant vegetative communities (forested, scrub/shrub, or emergent) and water regimes (e.g., ponded areas, obvious wet meadows). Approximate wetland boundaries were drawn on aerial photographs.

Boundaries determined in this way may not be sufficiently accurate for state and federal jurisdictional determinations because of the absence of on-site data. Some wetland areas may have been missed and not inventoried in areas where views into properties were impossible or otherwise restricted, and where aerial photographic and mapped information was inconclusive.

4.0 PROJECT AREA CHARACTERISTICS

4.1 Setting

The study area is defined as being within the UGB of the City of Sandy. The city is located southeast of Portland in Clackamas County, Oregon. The study area is located east and south of a bend in the Sandy River. The UGB is bisected by the Mt. Hood Highway (Highway 26), east of its intersection with Orient Drive. It includes approximately 2,400 acres (3.75 square miles) and has a population of approximately 4,275. Tickle Creek flows through the southern portion of the UGB, at the base of the valley floor, which varies from a narrow and steep-sided channel to a broader floodplain.

4.2 Topography

The project area is characterized by gently to steeply sloping uplands and a generally steep-sided valley. Excessively steep slopes drop down toward the Sandy River east of Bluff Road, and along the northeastern UGB. Elevations range from approximately 650 feet National Geodetic Vertical Datum (NGVD) at Tickle Creek near the

westernmost corner of the city to approximately 1,000 feet (NGVD) in the southeastern area of the city.

4.3 Hydrology

The UGB includes portions of three drainage basins (Figure 2). The majority of the UGB is within the Tickle Creek drainage basin (approximately 1,900 acres). However, approximately 240 acres along the eastern boundary of the city is within the Cedar Creek drainage basin and approximately 260 acres in the northern portion of the city is within the Sandy River drainage basin.
Tickle Creek and its tributaries flow west out of the study area. Many groundwater seeps and small intermittent drainages flow into Tickle Creek within the project boundaries. Small tributaries of the Sandy River flow north out of the project area and small tributaries of Cedar Creek flow east out of the project area.

4.4 Soils

There are seven soil types mapped within the study area: Alspaugh clay loam (map units 2D and 2E), Borges silty clay loam (map unit 7B); Cazadero silty clay loam (map units 15B, 15C, and 15D); Cottrell silty clay loam (map units 24C and 24D); Dystrochrepts (map unit 31F); and Klickitat stony loam (map unit 51E); Wapato silty clay loam (map unit 84) (SCS, 1985; Figure 3). Borges silty clay loam and Wapato silty clay loam are considered hydric (SCS, 1989). Cottrell silty clay loam may contain hydric inclusions of up to 15%. The following descriptions are taken directly from the soil survey.

Alspaugh clay loam, 15% to 30%, and 30% to 50% slopes, is a deep well-drained soil on high terraces and rolling uplands. It formed in alluvium and colluvium derived from andesite and tuff. Permeability of this soil is moderately slow. In a typical profile, the surface layer is dark brown clay loam about 14 inches thick. The subsoil is dark brown and reddish brown clay about 29 inches thick. Alspaugh clay loam is classified as a clayey, mixed, mesic Humic Hapludult. This soil unit is mapped in the northeastern slopes of the UGB.

Borges silty clay loam, 0% to 8% slopes, is a deep, poorly drained soil found in concave areas on rolling uplands and high terraces. It formed in mixed clayey alluvium (water deposited material). It is classified as a fine, mixed, nonacid, mesic Typic Humaquept. A typical profile for the Borges series is a very dark gray (10YR 3/1) silty clay loam from the surface to 7 inches, underlain by a very dark grayish brown (10YR 3/2) silty clay loam from 7 to 12 inches with dark yellowish brown (10YR 4/4) mottles. Borges silty clay loam is a hydric soil. This soil is mapped in one small area, in the center of the city south of Highway 26.

Cazadero silty clay loam, 0% to 7%, 7% to 12%, and 12% to 20% slopes, is a deep, well-drained soil on high terraces. It formed in old mixed alluvium. A typical profile includes a surface layer of dark reddish brown (5YR 3/3) silty clay loam about 12 inches thick. The subsoil is yellowish red (5YR 3/6) silty clay loam in the upper 9

inches. This soil is classified as a clayey, mixed, mesic Typic Rhodudult, and may have inclusions of Cottrell, Alspaugh, and Bornstedt soils. Cazadero silty clay loam with slopes of 0% to 7% may have inclusions of Borges soils. Permeability is moderately slow. This soil series is mapped broadly across most of the study area north of Tickle Creek, in the western extension of the UGB south of Highway 26, and in the eastern extension of the UGB on the northwestern side of Highway 26.

Cottrell silty clay loam, 2% to 8%, and 8% to 12% slopes, is a deep moderately well drained soil on high terraces and rolling uplands. This moderately slow permeability soil formed in old alluvium. Typically, the surface layer is very dark grayish brown and dark brown silty clay loam about 12 inches thick. The upper 12 inches of the subsoil is dark brown silty clay loam. This soil is classified as a clayey, mixed, mesic, Aquic Haplohumult, and may have inclusions of Borges soils. This series is mapped along Tickle Creek, and a tributary of Tickle Creek south of Highway 26. It also is mapped in the northwestern portion of the study area in headwater drainages of Tickle Creek that flow westward and join the creek outside the study area.

Dystrochrepts, very steep, (35% to 80% slopes) are deep, well-drained, soil on terrace escarpments. They formed in colluvium derived dominantly from basalt and andesite. There is no single profile that is typical for Dystrochrepts. One that was commonly observed in the survey area has a surface layer of dark brown gravelly loam or loam about 8 inches thick. The subsoil is brown gravelly loam or very gravelly loam, about 36 inches thick. In areas of similar included soils, the surface layer is silt loam. Permeability varies from moderately slow to moderately rapid. Inclusions of Aschoff, Alspaugh, and Bull Run soils make up as much as 20% of the total acreage. This soil is mapped along the northeastern UGB slopes and along the steep banks of Tickle Creek.

Klickitat stony loam, 30% to 60% slopes, is a deep, well drained soil on mountainous uplands. It formed in colluvium derived dominantly from andesite and basalt, and is classified as a loamy-skeletal, mixed, mesic Typic Haplumbrept. The surface layer is typically dark brown (7.5YR 3/2) and dark reddish brown (5YR 3/3) stony loam about 15 inches thick. The upper 13 inches of the subsoil is dark reddish brown (5YR 3/4) very gravelly clay loam. Permeability is moderate. This soil is mapped across one section in the eastern border of the far eastern extension of the UGB.

Wapato silty clay loam is a deep, poorly drained soil on flood plains. It formed in mixed alluvium. Slopes are 0% to 3%. Typically the surface layer is very dark brown (10YR 2/2) and very dark grayish brown (10YR 3/2), mottled silty clay loam about 18 inches thick. The subsoil is dark grayish brown (10YR 4/2), mottled silty clay loam about 27 inches thick. Permeability of this soil is moderately slow. This soil is classified at a fine-silty, mixed, mesic Fluvaquentic Haplaquoll. This unit may contain inclusions of Cove and McBee soils and Humaquepts of up to 15%.

4.5 Vegetation

4.5.1 Overview

Vegetation communities in the City of Sandy have been altered significantly from those that are believed to have been present before settlement by people of European heritage in the mid-1800's. During the past century essentially all of the survey area has been affected to some degree by logging and agricultural activities. Currently, the greatest agent of change is urbanization pressure from residential development.

Some patches of undisturbed habitat still exist. In these remnant areas, plant communities have developed that include associations of species common to other areas of the Willamette Valley and to the lower foothills of the Cascade Mountains.

Plant communities occurring in the City of Sandy include deciduous forest, mixed coniferous-deciduous forest, upland scrub/shrub, grassland, developed-urban, riparian, and wetland. Wetland communities can be further described as palustrine-open water, palustrine-emergent, palustrine-scrub/shrub, and palustrine-forested, following the classification system adopted by the USFWS (Cowardin, et al, 1979). Each of these communities is described below, with a more complete listing of species found in Section 4.5.3.

4.5.2 Vegetation Communities

Deciduous Forest

The overstory of a deciduous forest community is dominated by mature bigleaf maple and red alder. Occasional black cottonwood, Douglas fir, western hemlock, western red cedar, and wild cherry also may be present. The shrub layer tends to be denser than in coniferous stands, with vine maple, Indian plum, red elderberry, hazelnut, oceanspray, Oregon grape, and snowberry as common associates. The herbaceous ground cover usually is dominated by swordfern, with licorice fern, fringecup, and Siberian miner's lettuce also frequently present.

Mixed Coniferous-Deciduous Forest

Douglas fir generally codominates the overstory of the mixed coniferous-deciduous forest, with western red cedar, western hemlock, and deciduous species, such as bigleaf maple and red alder, also present. Common shrub species include hazelnut, vine maple, Indian plum, and red elderberry. Introduced species such as Himalayan blackberry and English ivy may begin to dominate the shrub understory, especially in more recently disturbed areas and along stand edges.

Upland Shrub

Upland shrub communities generally are found on disturbed sites that have been cleared, graded, or logged in recent years. Similar communities may be associated with grassland habitat, such as along fencelines at the edge of formerly maintained pastureland. Shrub communities are dominated by saplings of such trees as red alder and black cottonwood, along with such shrubs as oceanspray, hawthorne, Scot's broom, and Himalayan blackberry. The herbaceous layer is generally suppressed by the dense shrub growth, though species associated with adjacent grassland habitat may be present.

Grassland

Open areas (such as abandoned agricultural fields) commonly are dominated by grasses and associated forbs. Shrub thickets often dominate fenced or wooded boundaries. Observed grasses may include tall fescue, orchard grass, colonial bentgrass, and velvet grass. Common forbs include Canada and bull thistle, Queen Anne's lace, St. John's wort, white clover, and teasel. Shrubs often include Scot's broom, hawthorne, clustered rose, and Himalayan blackberry.

Developed-Urban

Plant communities shaped by human residential and past agricultural development are found throughout the study area. Most of the developed land area consists of residences, sidewalks, roads, and yards. Vegetated areas typically are dominated by introduced species, both weeds and ornamentals. Marginal areas often are dominated by thickets of Himalayan blackberry or one-seed hawthorne, while weedy grasses and forbs dominate open areas that are subject to more frequent disturbance.

Riparian Communities

Riparian forests generally are similar to upland mixed coniferous-deciduous forests, although species preferring wetter sites are more common. Douglas fir and bigleaf maple may codominate with western red cedar, western hemlock, red alder, hawthorne, and Oregon ash. In addition, the shrub layer often is denser and composed of species such as salmonberry, Douglas' hawthorne, and red-osier dogwood. Herbaceous species may dominate the understory, with stinging nettle, oxalis, false lily-of-the-valley, and lady fern being common associates. Riparian communities often are associated with or may overlap wetland plant communities.

Wetland Communities

Wetland areas generally are transitional between upland or riparian areas and truly aquatic sites with permanent open water, such as a stream. In some cases, however, open water

is seldom (if ever) present and the wetland occupies a location where the groundwater table comes close to the surface for an extended period sometime during the growing season.

Palustrine-forested wetlands in the area are dominated by such species as red alder, western red cedar, and willows. Palustrine scrub/shrub wetlands may have a high proportion of saplings of the above species, with the addition of such shrubs as salmonberry. Palustrine-emergent wetlands are dominated by herbaceous species, many of which are graminoids. Common species include common cattail, soft rush, reed canarygrass, creeping buttercup, slough sedge, small fruited bulrush, skunk cabbage, and lady fern.

4.5.3 Wetland and Upland Indicator Species

Species lists of commonly encountered plants and their status have been prepared for all regions of the country by the USFWS (Reed, 1988). The status of a particular plant, as discussed in Section 2.2.1, is the probability of that plant occurring in a wetland. Many plants, however, are found in transitional areas between wetlands and uplands. These areas usually are characterized by flat to gradually sloping terrain where the species composition may not reflect true wetland boundaries. In such areas, a species with a status of FACU may extend into the wetland areas, just as FACW species may be present in upland areas.

Below is a listing of indicator species in the wetland and associated upland habitats of the study area. This list includes the most commonly encountered plant species and is not a complete list of all species present within the study area.

Wetland Indicators

Common trees found in wetland and riparian areas include: red alder (*Alnus rubra*; FAC), western red cedar (*Thuja plicata*; FAC), and willows (*Salix* spp.; FAC to FACW).

Dominant shrubs found in wetlands and fringe areas include: Pacific ninebark (*Physocarpus capitatus*; FACW-), salmonberry (*Rubus spectabilis*; FAC+), and Douglas spirea (*Spirea douglasii*; FACW).

Common herbaceous species found in wetlands and transitional areas include: redtop (*Agrostis alba*; FAC), colonial bentgrass (*Agrostis tenuis*; FAC), meadow foxtail (*Alopecurus pratensis*; FACW), Dewey's sedge (*Carex deweyana*; FACU), slough sedge (*Carex obnupta*; OBL), teasel (*Dipsacus sylvestris*; FAC), hairy willow-herb (*Epilobium watsonii*; FACW-), common velvet grass (*Holcus lanatus*; FAC), soft rush (*Juncus effusus*; FACW), bird's foot trefoil (*Lotus corniculatus*; FAC), water parsley (*Oenanthe sarmentosa*; OBL), reed canarygrass (*Phalaris arundinacea*; FACW), creeping buttercup (*Ranunculus repens*; FACW), curly dock (*Rumex crispus*; FAC+), cattail (*Typha latifolia*; OBL), and American speedwell (*Veronica americana*; OBL).

Upland Indicators

Trees commonly found in upland areas include: bigleaf maple (*Acer macrophyllum*; FACU), Douglas fir (*Pseudotsuga menziesii*; FACU), and western hemlock (*Tsuga heterophylla*; FACU-). In addition, red alder (*Alnus rubra*; FAC) often is found in transitional to upland sites.

Dominant shrubs generally found in upland areas include: vine maple (*Acer circinatum*; FAC-), Oregon grape (*Berberis nervosa*; UPL), western hazelnut (*Corylus cornuta*; FACU), Scot's broom (*Cytisus scoparius*; UPL), Indian plum (*Oemlaria cerasiformis*; FACU), red elderberry (*Sambucus racemosa*; FACU), cascara (*Rhamnus purshiana*; FAC-), and snowberry (*Symphoricarpos albus*; FACU).

Herbaceous species most likely found in upland areas include: Canada thistle (*Cirsium arvense*; FACU+), bull thistle (*Cirsium vulgare*; FACU), orchard grass (*Dactylis glomerata*; FACU), Queen Anne's lace (*Daucus carota*; UPL), tall fescue (*Festuca arundinacea*; FAC-), catchweed bedstraw (*Galium aparine*; FACU), western swordfern (*Polystichum munitum*; FACU), bracken fern (*Pteridium aquilinum*; FACU), common dandelion (*Taraxacum officinale*; FACU), and red clover (*Trifolium pratense*; FACU).

5.0 DISCUSSION AND CONCLUSIONS

5.1 USFWS NWI Areas

The USFWS, as part of the NWI program, has mapped wetlands in the study area (USFWS, 1981; Figure 4). Wetlands are given designations according to the Cowardin classification system (Cowardin, et al, 1979). The NWI maps are generated primarily on the basis of interpretation of relatively small-scale color infrared aerial photographs (e.g., scale of 1:58,000) with limited "ground truthing" conducted to confirm the interpretations.

Most of the wetlands within the study area are classified as palustrine. Palustrine combines vegetated wetlands, which traditionally are called marshes, swamps, bogs, fens, wet prairies, with small, shallow, permanent, or intermittent water bodies called ponds.

The NWI mapped wetlands within the project area are located along Tickle Creek and three small tributaries. One tributary is located in the southwestern portion and two are located in the northwestern portion of the UGB. Tickle Creek is classified as a palustrine, forested, broad-leaved deciduous, saturated/semipermanent/seasonal (PFO1Y) body of water for most of its length through the project area. The small tributary of Tickle Creek in the southwestern portion of the UGB has the same classification; however, it changes in its northern end to a palustrine, emergent, persistent, saturated/semipermanent/seasonal (PEM1Y) wetland. The southern of two tributaries in the northwestern section of the UGB also is classified as PEM1Y, with

Table 1. Wetland Types (Cowardin classification) Identified Through the LWI

Wetland	PEM	PSS	PFO	POW	Acreage
TC–1				0.11	0.11
TC–2	0.20				0.20
TC–3			1.09		1.09
TC–4	1.00			0.95	1.95
TC–5			1.23		1.23
TC–6	0.80	3.20			4.00
TC–7	0.64			0.92	1.56
TC–8	0.66	0.92	0.13		1.71
TC–9	0.40		0.46		0.86
TC–10	0.40			1.75	2.15
TC–11	0.12		0.06		0.18
TC–12		0.35	3.94		4.29
TC–13	0.90		1.15		2.05
TC–14a	0.34	2.07	1.20		3.61
TC–14b	1.50	4.04	2.00		7.54
TC–15			0.52		0.52
TC–16		2.28	1.50		3.78
TC–17		2.60	2.00		4.60
TC–18	0.01		0.02		0.03
TC–19		0.05	0.10		0.15
TC–20	0.25		2.02		2.27
TC–21a	0.30	0.72	0.30		1.32
TC–21b	0.25				0.25
TC–21c	0.08	0.08			0.16
TC–22			0.19		0.19
TC–23			1.43		1.43
TC–24	0.30				0.30
TC–25			0.16		0.16
TC–26		0.10	0.12		0.22
TC–27			2.35		2.35
TC–28	0.05	0.01			0.06
TC–29	0.16				0.16
TC–30		0.09	0.39		0.48
TC–31		0.22	0.23		0.45
TC–32	0.06	0.12			0.18
CC–1			0.30		0.30
CC–2			1.54		1.54
CC–3	0.10		0.66		0.76
CC–4			0.41		0.41
Totals	8.52	16.85	25.50	3.73	54.60

two areas of palustrine, open water, artificially flooded, intermittently exposed/permanent, diked/impounded (POWKZh). The northern tributary in the northwestern portion of the UGB is classified as PFO1Y, with one small area classified as palustrine, open water, artificially flooded, intermittently exposed/permanent, excavated (POWKZx).

5.2 Local Wetlands Inventory Results

5.2.1 Total Wetland Acreage

Figure 5 illustrates the 55 wetland and intermittent drainage areas identified in this LWI. Of the 51 inventoried sites, 39 are identified as potentially jurisdictional wetlands. The total area of these wetlands is approximately 54 acres, or 2% of the entire UGB. The remaining 16 areas do not have all three of the mandatory criteria needed for designation as jurisdictional wetland. These areas, however, may still be under the jurisdiction of the DSL and the COE.

The majority of wetland areas were delineated using the routine on-site method of the Federal Manual. In areas where property access was denied, wetland boundaries were delineated off-site using aerial photographs, topographic maps and other pertinent information.

5.2.2 Distribution and Location of Wetlands

The following table is a summary of the types of wetland comprising the approximately 54 acres identified through the LWI:

Palustrine emergent	7.98 acres
Palustrine scrub/shrub	16.77 acres
Palustrine forested	25.50 acres
Palustrine open water	3.62 acres

A more complete listing of wetland areas by classification is shown on Table 1.

The majority of the wetlands identified through the inventory are associated with the banks of Tickle Creek and its tributaries. These wetlands generally are dominated by a forested overstory. If located along Tickle Creek, they generally are inundated or saturated to the surface for much of the year.

The remaining wetlands and intermittent drainageways are associated with seasonal groundwater seeps. Wetlands in these areas have shallow groundwater tables long enough into the growing season to create anaerobic soil conditions. These wetlands are dominated by vegetation, such as soft rush (*Juncus effusus*), slender rush (*Juncus*

tenuis), and velvet grass (*Holcus lanatus*), which is adapted to saturated soils. It should be noted that many inventoried wetland areas extend beyond the study area boundary.

In many of the intermittent drainages in the City of Sandy, such as TC-E and TC-L, water is not present long enough to create anaerobic soil conditions; consequently, these areas do not contain hydric soils. In addition, water associated with these areas is relatively short duration and not sufficient to support a vegetation community dominated by hydrophytic species.

Appendix A contains wetland delineation data forms for sample sites within and adjacent to inventoried areas.

Appendix B, contains wetland summary sheets for all of the wetlands and intermittent drainageways identified through the LWI.

5.3 Wetland Quality Assessment

An assessment of the quality for each of the 39 wetlands identified through the LWI was conducted using the OFWAM. OFWAM assesses six functions and three conditions, as described in Section 2.5.2. Appendix C, contains all of the answer and summary sheets showing the results for each of the functions and conditions assessed by the methodology. OFWAM provides qualitative information on the relative value of wetlands but does not have a numerical ranking.

The results of the quality assessment indicates that the wetlands associated with a perennial water source, such as Tickle Creek (TC-12, TC-13, TC-15, TC-16, TC-17, TC-20, TC-23, and TC-27), provide diverse habitat for wildlife, have educational uses, and are considered to be aesthetically pleasing. In general, disturbed wetlands, such as TC-29 and TC-32, which are associated with small streams disturbed by excavation and lacking vegetative buffers, were considered to be of the lowest quality. Although these wetlands are relatively large, they do not possess a diverse assemblage of plants and do not provide wetland-dependant wildlife habitat.

Other factors that lowered the quality of wetlands within the UGB are the proximity of the wetland to a busy road, such as Highway 211; manipulation of streams through culverting and channelization; lack of vegetative buffer; and presence of a single vegetation community. A significance criteria or ranking for inventoried wetlands is not included in this report.

6.0 REFERENCES

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CITY OF SANDY
Local Wetland Inventory

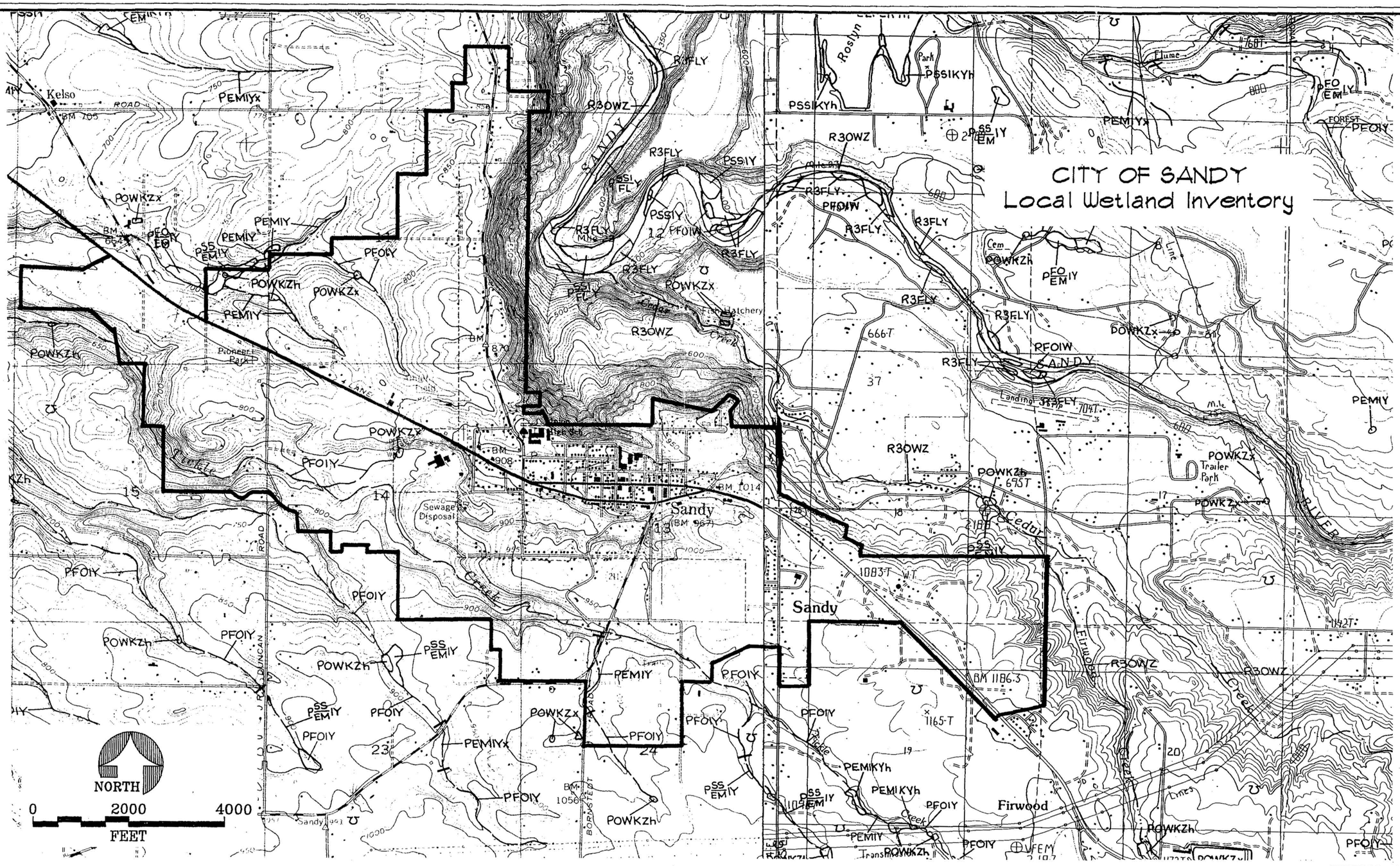
NORTH
0 2000 4000
FEET

7955080 1/24/97

Location and general topography of the Sandy Local Wetlands Inventory study area, Oregon (U.S.G.S. Sandy and Bull Run, Oregon, 7.5-minute quadrangles, 1:24000, 1975 and 1985).

FIGURE
1

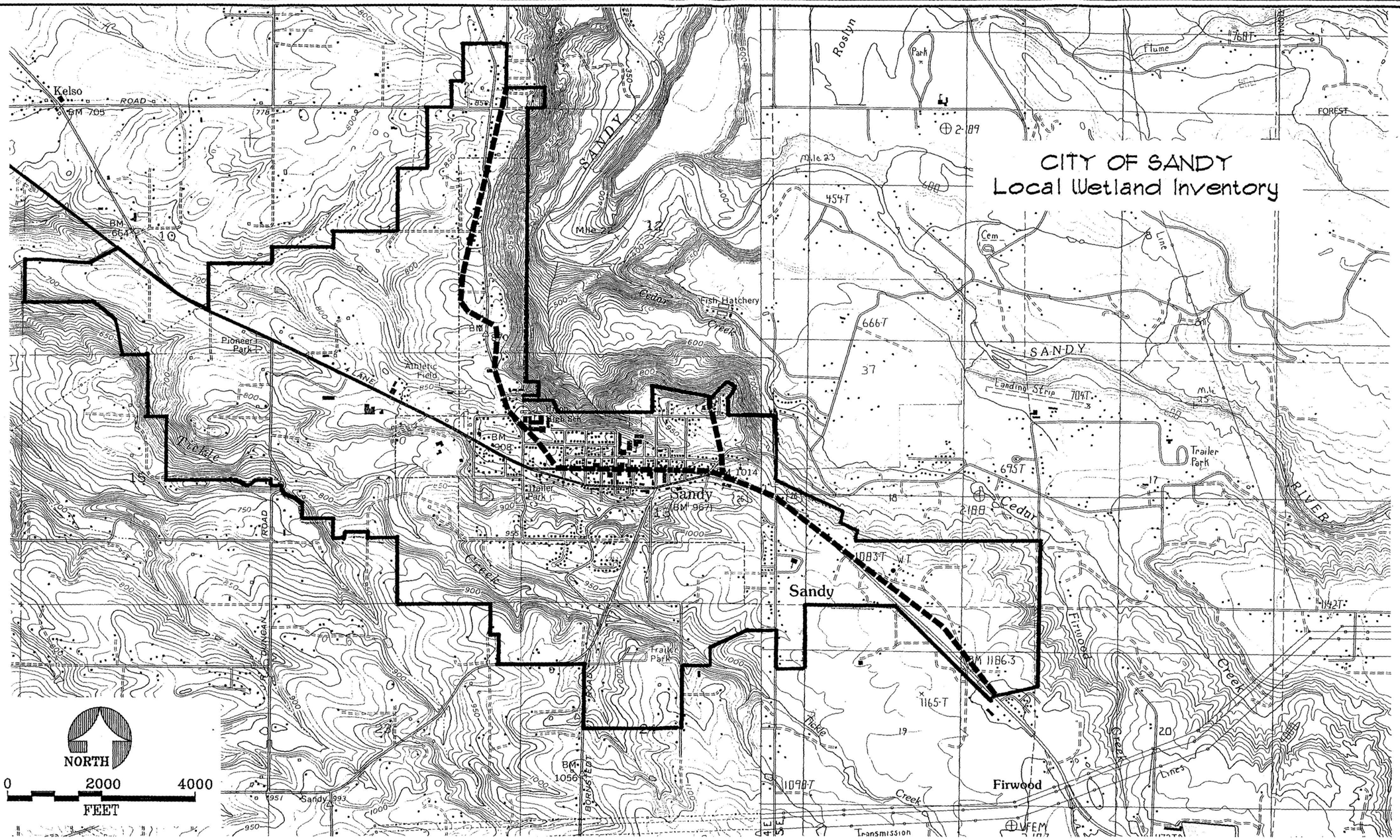
SRI/SHAPIRO INCORPORATED



National Wetlands Inventory designations for the Sandy Local Wetlands Inventory (U.S. Fish and Wildlife Service Sandy and Bull Run, Oregon, 7.5-minute quadrangles, 1:24000, based on 1981 color infrared aerial photography).

FIGURE
4

SRI/SHAPIRO
INCORPORATED



7955080 1/24/97

Drainage basin boundaries for Tickle Creek, Cedar Creek,and the Sandy River within the Sandy Local Wetlands Inventory study area (U.S.G.S. Sandy and Bull Run, Oregon, 7.5-minute quadrangles, 1:24000, 1975 and 1985).

FIGURE
2

SRI/SHAPIRO
INCORPORATED

CITY OF SANDY
Local Wetland Inventory

Figure 3. Soil mapping units for the Sandy Local Wetlands Inventory (Soil Conservation Service, *Soil Survey of Clackamas County Area, Oregon*, 1:20000, 1985).

NORTH

0 2000 4000

FEET

7955080 1/24/97

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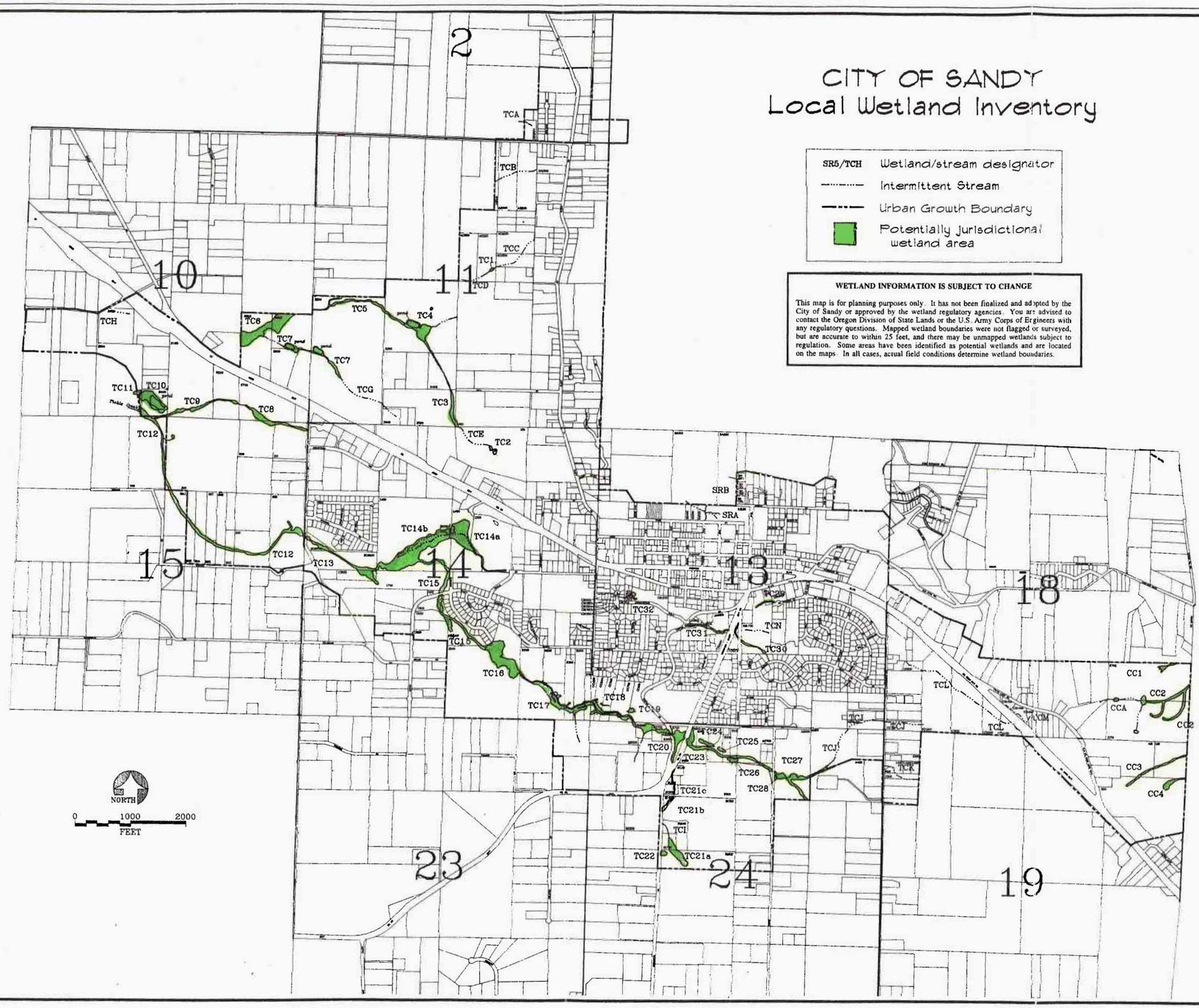
INCORPORATED

CITY OF SANDY
Local Wetland Inventory

SR5/TCH — Wetland/stream designator
Intermittent Stream
Urban Growth Boundary
Potentially jurisdictional wetland area

WETLAND INFORMATION IS SUBJECT TO CHANGE

This map is for planning purposes only. It has not been finalized and adopted by the City of Sandy or approved by the wetland regulatory agencies. You are advised to contact the Oregon Division of State Lands or the U.S. Army Corps of Engineers with any regulatory questions. Mapped wetland boundaries were not flagged or surveyed, but are accurate to within 25 feet, and there may be unmapped wetlands subject to regulation. Some areas have been identified as potential wetlands and are located on the maps. In all cases, actual field conditions determine wetland boundaries.

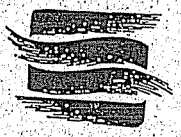


7955080 1/24/97

FIGURE 5

Potentially jurisdictional wetlands of the Sandy Local Wetlands Inventory study area.

SRI/SHAPIRO/AGCO INCORPORATED



Appendix A

Wetland Inventory Data Sheets

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-001 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 2
Investigator: JF, DK Sample Site: TC-A-1

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 5YR 4/6 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	30%	
Herb	*CIRSIUM ARVENSE*	FACU+	5%	
Herb	*DACTYLIS GLOMERATA*	FACU	5%	
Herb	*ELYMUS TRITICOIDES*	FAC	60%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-002 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,DK Sample Site: TC-B-2

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 5YR 4/6 3-12"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: CLAY LOAM; 0-3" DARK HUMUS LAYER

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 4
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 1"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*DIGITARIA ISCHAEMUM*	FACU	3%	
Herb	*GALIUM APARINE*	FACU	5%	
Herb	*HOLCUS LANATUS*	FAC	20%	
Herb	*RANUNCULUS REPENS*	FACW	70%	
Herb	*TARAXACUM OFFICINALE*	FACU	2%	70%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	30%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-003 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF ,DK Sample Site: TC-B-3

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 5YR 4/6 11-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: S/C/L; 0-7" 5YR 3/2, S/L; 7-11" 5YR 3/3, S/L

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*PSEUDOTSUGA MENZIESII*	FACU	30%	
Tree	*THUJA PLICATA*	FAC	70%	40%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	50%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	50%	30%
Herb	*POLYSTICHUM MUNITUM*	FACU	70%	
Herb	*VANCOUVERIA HEXANDRA*	UPL	30%	20%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS URSINUS*	FACU	50%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 25%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-004 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,DK Sample Site: TC-C-4

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 2/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment: CHANNEL BOT. INUND. TO SOIL SURF., BUT NO SURF. H2O DEPTH

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	35%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	65%	20%
Herb	*AGROSTIS STOLONIFERA*	FAC-	20%	
Herb	*EPILOBIUM WATSONII*	FACW-	20%	
Herb	*HOLCUS MOLLIS*	UPL	60%	40%
Woody Vine	*RUBUS URSINUS*	FACU	100%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 17%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-005 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF ,DK Sample Site: TC-C-5

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*ROSA SP.*	NI	20%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	30%
Herb	*CAREX DEWEYANA*	FACU	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	70%	20%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method -

Applicant: DIVISION OF STATE LANDS Project #: 95080-006 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,DK Sample Site: TC-1-6

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/1 6-7"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: S/L; 0-6" 10YR 3/2; 7-11" 7.5YR 3/2; 11-18" 10YR 4/3, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	5%
Herb	*AGROSTIS SP.*	FAC	15%	
Herb	*CAREX DEWEYANA*	FACU	10%	
Herb	*HOLCUS LANATUS*	FAC	5%	
Herb	*LAPSANA COMMUNIS*	UPL	5%	
Herb	*RANUNCULUS REPENS*	FACW	50%	
Herb	*STACHYS COOLEYAE*	FACW	10%	
Herb	*VERONICA AMERICANA*	OBL	5%	90%
Woody Vine	*RUBUS URSINUS*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-007 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF ,DK Sample Site: TC-D-7

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 1
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	90%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	10%	60%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*CAREX DEWEYANA*	FACU	40%	
Herb	*OENANTHE SARMENTOSA*	OBL	10%	
Herb	*TOLMIEA MENZIESII*	FAC	40%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment: INTERMITTENT DRAINAGE - SITE VISIT DURING PERIOD OF HEAVY RAIN

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-008 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: DC,DK Sample Site: TC-3-8

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 3 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	0%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	0%
Herb	*FESTUCA ARUNDINACEA*	FAC-	10%	
Herb	*OENANTHE SARMENTOSA*	OBL	20%	
Herb	*RANUNCULUS REPENS*	FACW	50%	
Herb	*RUMEX SP.*	FAC	20%	0%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	0%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-009 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: DC,DK Sample Site: TC-3-9

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/4 3+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-3" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	20%	
Tree	*ALNUS RUBRA*	FAC	80%	30%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	75%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	25%	30%
Herb	*POLYSTICHUM MUNITUM*	FACU	90%	15%
Woody Vine	*RUBUS URSINUS*	FACU	100%	25%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-010 Date: 11/10/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: DC ,DK Sample Site: TC-4-10

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 10-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILT LOAM; 0-4" 10YR 3/3; 4-10" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 2
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	40%	
Herb	*ELYMUS TRITICOIDES*	FAC	20%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	35%	
Herb	*JUNCUS EFFUSUS*	FACW	5%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-011 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,SD Sample Site: TC-4-11

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 5/1 5-18"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: CLAY LOAM; 0-5" 10YR 4/4, SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 6
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS ALBA*	FACW	10%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	10%	
Herb	*JUNCUS EFFUSUS*	FACW	40%	
Herb	*LOTUS CORNICULATUS*	FAC	20%	
Herb	*SCIRPUS MICROCARPUS*	OBL	20%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-012 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,SD Sample Site: TC-4-12

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/2 8-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: MIXED WITH 7.5YR 4/4; 0-8" 5YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: 16
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: MOIST AT SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	15%	
Herb	*CIRSIUM ARVENSE*	FACU+	15%	
Herb	*DACTYLIS GLOMERATA*	FACU	25%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	35%	
Herb	*PLANTAGO LANCEOLATA*	FAC	10%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-013 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,SD Sample Site: TC-4-13

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 12+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-12" FINE BARK DUST MATERIAL

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 5
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ALNUS RUBRA*	FAC	70%	
Sapling/Shrub	*SALIX LASIANDRA*	FACW+	30%	20%
Herb	*EPILOBIUM WATSONII*	FACW-	10%	
Herb	*HOLCUS LANATUS*	FAC	10%	
Herb	*JUNCUS EFFUSUS*	FACW	15%	
Herb	*LOTUS CORNICULATUS*	FAC	2%	
Herb	*RUMEX CRISPUS*	FAC+	3%	
Herb	*TYPHA LATIFOLIA*	OBL	60%	70%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 75%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment: Disturbed wetland - filled with non-native material

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-014 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: DC,DK Sample Site: TC-5-14

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/4 5+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-5" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*PSEUDOTSUGA MENZIESII*	FACU	100%	40%
Sapling/Shrub	*HOLODISCUS DISCOLOR*	UPL	25%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	75%	20%
Herb	*CAREX DEWEYANA*	FACU	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	30%	
Herb	*TIARELLA TRIFOLIATA*	FAC-	20%	
Herb	*TRILLIUM OVATUM*	NI	5%	
Herb	*VANCOUVERIA HEXANDRA*	UPL	30%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-015 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: DC,DK Sample Site: TC-5-15

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 5Y 4/1 12+"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: CLAY; 0-5" 10YR 3/2, S/L; 5-12" 10YR 3/1 W/7.5YR 3/4 MOTTS. S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; ORs BELOW 12"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*CRATAEGUS DOUGLASII*	FAC	100%	30%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	60%	
Herb	*LYSICHITUM AMERICANUM*	OBL	40%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-016 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,SD Sample Site: TC-5-16

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/4 3-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-3" 5YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	90%	
Tree	*PSEUDOTSUGA MENZIESII*	UPL	10%	40%
Sapling/Shrub	*ACER GLABRUM*	FAC	50%	
Sapling/Shrub	*ALNUS RUBRA*	FAC	50%	30%
Herb	*CAREX SP.*	FAC	70%	
Herb	*TIARELLA TRIFOLIATA*	FAC-	30%	10%
Woody Vine	*RUBUS URSINUS*	FACU	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 66%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-017 Date: 10/12/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,SD Sample Site: TC-5-17

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 8+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-8" 10YR 3/2 W/7.5YR 4/4 MOTTS.

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	100%	60%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*LYSICHITUM AMERICANUM*	OBL	70%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-018 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF ,PF Sample Site: TC-G-18

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 4/6 3-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-3" 10YR 3/1, SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*CYTISUS SCOPARIUS*	UPL	100%	20%
Herb	*AGROPYRON REPENS*	FAC-	10%	
Herb	*CHRYSANTHEMUM LEUCANTHEMUM*	UPL	20%	
Herb	*CIRSIUM ARVENSE*	FACU+	20%	
Herb	*DAUCUS CAROTA*	UPL	5%	
Herb	*DIGITALIS PURPUREA*	UPL	5%	
Herb	*HOLCUS LANATUS*	FAC	15%	
Herb	*PHALARIS ARUNDINACEA*	FACW	15%	
Herb	*TRIFOLIUM PRATENSE*	FACU	5%	
Herb	*VICIA SATIVA*	UPL	5%	65%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-019 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF ,PF Sample Site: TC-G-19

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*POPULUS BALSAMIFERA*	FAC	100%	20%
Herb	*PHALARIS ARUNDINACEA*	FACW	100%	80%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-020 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,PF Sample Site: TC-7-20

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: YES Mottle Color: 7.5YR 4/4 >7"
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 2 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SAT. TO SURF.; ADJACENT TO FLOWING WATER UP TO 8" D X 20' W

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	10%	
Herb	*GLYCERIA SP.*	OBL	30%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*LOTUS CORNICULATUS*	FAC	5%	
Herb	*PHALARIS ARUNDINACEA*	FACW	15%	
Herb	*RORIPPA NASTURTIUM-AQUATICUM*	OBL	5%	
Herb	*VERONICA AMERICANA*	OBL	15%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-021 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF ,PF Sample Site: TC-7-21

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 4/6 12+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-8" 10YR 3/3; 8-12" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	20%	
Herb	*CENTAURIUM UMBELLATUM*	FAC	2%	
Herb	*CHRYSANTHEMUM LEUCANTHEMUM*	UPL	10%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	15%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*PLANTAGO LANCEOLATA*	FAC	15%	
Herb	*PRUNELLA VULGARIS*	FACU+	5%	
Herb	*TRIFOLIUM REPENS*	FACU+	10%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-022 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,PF Sample Site: TC-7-22

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 4/6 6+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-6" 10YR 3/4, SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: 12
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: UNUSUAL DUE TO GROUND WATER MOVEMENT ASSOC. WITH STORMS

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS STOLONIFERA*	FAC-	10%	
Herb	*AGROSTIS TENUIS*	FAC	30%	
Herb	*CHRYSANTHEMUM LEUCANTHEMUM*	UPL	20%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*PLANTAGO LANCEOLATA*	FAC	10%	
Herb	*TRIFOLIUM REPENS*	FACU+	20%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment: GRAZED FIELD

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-023 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 11
Investigator: JF,PF Sample Site: TC-7-23

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 4-18"
Mottles: YES Mottle Color: 7.5YR 4/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-4" 10YR 4/3, SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 15
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; <1' FROM FLOWING WATER IN DRAINAGE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	25%	
Herb	*CALLITRICHE STAGNALIS*	OBL	10%	
Herb	*JUNCUS EFFUSUS*	FACW	30%	
Herb	*LOTUS CORNICULATUS*	FAC	15%	
Herb	*RANUNCULUS REPENS*	FACW	5%	
Herb	*VERONICA AMERICANA*	OBL	15%	90%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-024 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,PF Sample Site: TC-7-24

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 5Y 6/1 8+"
Mottles: YES Mottle Color: 7.5YR 5/8
Hydric Soil Criteria met: YES
Comment: SILTY CLAY; 0-8" 10YR 4/1 W/7.5YR 5/8 MOTTS., SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 2
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	10%	
Herb	*CAREX OBNUPTA*	OBL	10%	
Herb	*CAREX SP.*	FACW	10%	
Herb	*HOLCUS LANATUS*	FAC	10%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*JUNCUS ENSIFOLIUS*	FACW	20%	
Herb	*SCIRPUS MICROCARPUS*	OBL	10%	
Herb	*VICIA SATIVA*	UPL	10%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-025 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF ,PF Sample Site: TC-7-25

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 4/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	40%	
Herb	*CIRSIUM ARVENSE*	FACU+	30%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	25%	
Herb	*PLANTAGO LANCEOLATA*	FAC	5%	50%
Woody Vine	*RUBUS DISCOLOR*	FACU	70%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	30%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 20%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-026 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF ,PF Sample Site: TC-6-26

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: GROUND WATER DUE TO HEAVY RAINS

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS STOLONIFERA*	FAC-	15%	
Herb	*AGROSTIS TENUIS*	FAC	20%	
Herb	*CHRYSANTHEMUM LEUCANTHEMUM*	UPL	10%	
Herb	*HYPOCHAERIS RADICATA*	UPL	15%	
Herb	*PARENTUCELLIA VISCOSA*	FAC-	10%	
Herb	*PLANTAGO LANCEOLATA*	FAC	20%	
Herb	*TANACETUM VULGARE*	NI	10%	80%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-027 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF ,PF Sample Site: TC-6-27

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 7.5YR 4/4 >3"
Hydric Soil Criteria met: YES

Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; 5' FROM FLOWING WATER

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ALNUS RUBRA*	FAC	20%	
Sapling/Shrub	*ROSA PISOCARPA*	FAC	15%	
Sapling/Shrub	*SALIX SCOULERIANA*	FAC	20%	
Sapling/Shrub	*SPIRAEA DOUGLASII*	FACW	45%	40%
Herb	*CAREX SP.*	FACW	10%	
Herb	*HOLCUS LANATUS*	FAC	20%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*PARENTUCELLIA VISCOSA*	FAC-	5%	
Herb	*RANUNCULUS REPENS*	FACW	30%	
Herb	*SCIRPUS MICROCARPUS*	OBL	15%	40%
Woody Vine	*RUBUS DISCOLOR*	FACU	70%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	30%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 75%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-028 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-H-28

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 0-7% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 5YR 3/2 5-18+"
Mottles: YES Mottle Color: 5YR 4/6 16+"
Hydric Soil Criteria met: YES
Comment: SILT LOAM; 0-5" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	60%	
Herb	*HOLCUS LANATUS*	FAC	35%	
Herb	*PHLEUM PRATENSE*	FAC-	5%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-029 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF ,DK Sample Site: TC-H-29

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 0-7% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 5YR 3/3 0-18+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	65%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	20%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	15%	80%
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	
Herb	*PTERIDIUM AQUILINUM*	FACU	60%	10%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-030 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-8-30

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 4-18+"
Mottles: YES Mottle Color: 5YR 4/6
Hydric Soil Criteria met: YES
Comment: S/C/L; 0-4" 10YR 3/2, ORG. S/L; 4" BAND OF 7.5YR 4/4 GRAV. SAND

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 2
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*SALIX SCOULERIANA*	FAC	100%	5%
Herb	*AGROSTIS TENUIS*	FAC	10%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	10%	
Herb	*HOLCUS LANATUS*	FAC	20%	
Herb	*JUNCUS EFFUSUS*	FACW	30%	
Herb	*RANUNCULUS REPENS*	FACW	30%	80%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 80%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-031 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-8-31

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS STOLONIFERA*	FAC-	30%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	25%	
Herb	*HYPOCHAERIS RADICATA*	UPL	25%	
Herb	*PLANTAGO LANCEOLATA*	FAC	10%	
Herb	*TRIFOLIUM REPENS*	FACU+	10%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-032 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-8-32

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 4-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-4" ORGANIC SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*FESTUCA RUBRA*	FAC+	5%	
Herb	*GLYCERIA LEPTOSTACHYA*	OBL	60%	
Herb	*HOLCUS LANATUS*	FAC	15%	
Herb	*LOTUS CORNICULATUS*	FAC	20%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-033 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-8-33

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 12
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: RECENT HEAVY RAINS

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*ACHILLEA MILLEFOLIUM*	FACU	5%	
Herb	*AGROSTIS TENUIS*	FAC	60%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	10%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*LOTUS CORNICULATUS*	FAC	5%	
Herb	*TRIFOLIUM REPENS*	FACU+	5%	
Herb	*VICIA SATIVA*	UPL	5%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-034 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-9-34

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 4 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*PHALARIS ARUNDINACEA*	FACW	100%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

;RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-035 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-9-35

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 5YR 3/3 4-18+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-4" 5YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	20%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	20%	
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	10%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	30%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	40%	50%
Herb	*DISPORUM SP.*	UPL	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	35%	
Herb	*PTERIDIUM AQUILINUM*	FACU	50%	20%
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	
Woody Vine	*RUBUS URSINUS*	FACU	50%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 12%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-036 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-10-36

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 2.5Y 5/1 10-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: CLAY MIXED W/10YR 4/4; 0-10" MIXED ORG. & 10YR 3/3 LAYER, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS STOLONIFERA*	FAC-	10%	
Herb	*HOLCUS LANATUS*	FAC	5%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*JUNCUS EFFUSUS*	FACW	30%	
Herb	*LOLIUM PERENNE*	FACU	5%	
Herb	*PLANTAGO LANCEOLATA*	FAC	5%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*TRIFOLIUM REPENS*	FACU+	15%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-037 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-12-37

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 4/2 10-18"
Mottles: YES Mottle Color: 10YR 5/6
Hydric Soil Criteria met: YES
Comment: CLAY LOAM; 0-10" 10YR 3/2, SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 9
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 8"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	80%	
Tree	*THUJA PLICATA*	FAC	20%	20%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	5%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*LYSICHITUM AMERICANUM*	OBL	5%	
Herb	*OENANTHE SARMENTOSA*	OBL	5%	
Herb	*OXALIS OREGANA*	UPL	5%	
Herb	*POLYSTICHUM MUNITUM*	FACU	5%	
Herb	*RANUNCULUS REPENS*	FACW	10%	
Herb	*TOLMIEA MENZIESII*	FAC	40%	75%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-038 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-12-38

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 7-18+"
Mottles: YES Mottle Color: 5YR 4/4 10+"
Hydric Soil Criteria met: YES
Comment: FINE SANDY S/L; 0-4" 7.5YR 3/2, 4-7" 10YR 4/3, S/C/L; CHAR.,WOOD

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SAT. TO SURF.; TOPO. DEPRESSIONS, BLACKENED LEAVES ON SURF.

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	50%	
Tree	*THUJA PLICATA*	FAC	50%	40%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	35%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*LYSICHITUM AMERICANUM*	OBL	10%	
Herb	*OENANTHE SARMENTOSA*	OBL	40%	
Herb	*TOLMIEA MENZIESII*	FAC	20%	25%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-039 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF ,DK Sample Site: TC-12-39

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: COBBLY, DRY SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	40%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	20%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*OXALIS OREGANA*	UPL	40%	
Herb	*POLYSTICHUM MUNITUM*	FACU	30%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-040 Date: 10/26/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-11-40

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 4/2 9-18"
Mottles: YES Mottle Color: 7.5YR 4/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY ; 0-5" 7.5YR 3/1, 5-9" 10YR 3/2, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ALNUS RUBRA*	FAC	100%	0%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*RANUNCULUS REPENS*	FACW	30%	
Herb	*TYPHA LATIFOLIA*	OBL	40%	75%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-041 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 10
Investigator: JF,DK Sample Site: TC-12-41

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 2.5/1
Mottles: NO
Hydric Soil Criteria met: YES
Comment: 7-20", ORG. MATTER IN DARKER HORIZON; 0-7" 5YR 3/3, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 2"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ALNUS RUBRA*	FAC	35%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	15%	
Sapling/Shrub	*SALIX SCOULERIANA*	FAC	35%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	15%	35%
Herb	*DIGITALIS PURPUREA*	UPL	5%	
Herb	*GLYCERIA ELATA*	FACW+	20%	
Herb	*JUNCUS EFFUSUS*	FACW	5%	
Herb	*LYSICHITUM AMERICANUM*	OBL	5%	
Herb	*OENANTHE SARMENTOSA*	OBL	5%	
Herb	*RANUNCULUS REPENS*	FACW	40%	
Herb	*SCIRPUS MICROCARPUS*	OBL	20%	50%
Woody Vine	*RUBUS DISCOLOR*	FACU	30%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	70%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 71%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-042 Date: 11/03/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-12-42

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 8-15% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 4/4 1-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: MOIST SILTY CLAY LOAM; 0-1" LEAF LITTER LAYER

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	30%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	30%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	40%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	25%	
Herb	*CAREX DEWEYANA*	FAC+	5%	
Herb	*EQUISETUM ARVENSE*	FAC	5%	
Herb	*GALIUM APARINE*	FACU	5%	
Herb	*OXALIS OREGANA*	UPL	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	25%	
Herb	*TOLMIEA MENZIESII*	FAC	20%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 57%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

JRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-043 Date: 10/25/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-12-43

Soils

Mapped Series and Phase: DYSTROCHREPTS, VERY STEEP
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM, SLIGHTLY COBBLY

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	70%	
Tree	*THUJA PLICATA*	FAC	30%	25%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	20%	
Sapling/Shrub	*THUJA PLICATA*	FAC	30%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	5%	25%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*OXALIS OREGANA*	UPL	40%	
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	40%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 57%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-044 Date: 10/25/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: JF,DK Sample Site: TC-12-44

Soils

Mapped Series and Phase: DYSTROCHREPTS, VERY STEEP
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/1 10-18"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: 0-10" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	40%	
Tree	*THUJA PLICATA*	FAC	60%	30%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	60%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	40%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	45%	
Herb	*POLYSTICHUM MUNITUM*	FACU	15%	
Herb	*TOLMIEA MENZIESII*	FAC	40%	45%
Woody Vine	*RUBUS URSINUS*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 71%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-045 Date: 10/25/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: PF,DK Sample Site: TC-13-45

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 5BG 4/1 >14"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: GLEY; 0-6" 10YR 3/3; 6-14" 10YR 4/1

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 16
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 4"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	20%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	25%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*CAREX OBNUPTA*	OBL	10%	
Herb	*LYSICHITUM AMERICANUM*	OBL	20%	
Herb	*OENANTHE SARMENTOSA*	OBL	10%	
Herb	*TOLMIEA MENZIESII*	FAC	35%	
Herb	*URTICA DIOICA*	FAC+	5%	55%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-046 Date: 10/25/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: PF,DK Sample Site: TC-13-46

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/4 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM, COBBLES AT 8" DEPTH

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	60%	
Tree	*THUJA PLICATA*	FAC	40%	40%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	30%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	30%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	40%	35%
Herb	*POLYSTICHUM MUNITUM*	FACU	100%	20%
Woody Vine	*RUBUS URSINUS*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 43%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-047 Date: 10/25/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: PF,DK Sample Site: TC-13-47

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*OXALIS OREGANA*	UPL	5%	
Herb	*TOLMIEA MENZIESII*	FAC	35%	
Herb	*URTICA DIOICA*	FAC+	50%	65%
Woody Vine	*RUBUS URSINUS*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 75%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-048 Date: 10/25/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 15
Investigator: PF,DK Sample Site: TC-13-48

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 8-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-8" 10YR 3/2 W/7.5YR 4/6 MOTTS.

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 16
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: H2S ODOR; SOIL SATURATED AT 6"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	30%	
Tree	*THUJA PLICATA*	FAC	70%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*CAREX OBNUPTA*	OBL	5%	
Herb	*LYSICHITUM AMERICANUM*	OBL	15%	
Herb	*OENANTHE SARMENTOSA*	OBL	20%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*SOLANUM DULCAMARA*	FAC+	5%	
Herb	*TOLMIEA MENZIESII*	FAC	20%	50%
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	
Woody Vine	*RUBUS URSINUS*	FACU	50%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 71%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-049 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14B-49

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 4
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	20%
Herb	*EPILOBIUM WATSONII*	FACW-	10%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*PHALARIS ARUNDINACEA*	FACW	10%	
Herb	*RANUNCULUS REPENS*	FACW	30%	
Herb	*SCIRPUS MICROCARPUS*	OBL	25%	
Herb	*VERONICA AMERICANA*	OBL	5%	80%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-050 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14B-50

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 2 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*SALIX LASIANDRA*	FACW+	100%	5%
Herb	*EPILOBIUM WATSONII*	FACW-	10%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*RUMEX CRISPUS*	FAC+	10%	
Herb	*SCIRPUS MICROCARPUS*	OBL	30%	95%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-051 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14B-51

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/2 11+"
Mottles: YES Mottle Color: 7.5YR 3/4
Hydric Soil Criteria met: YES
Comment: CLAY; 0-7" 10YR 3/2, ORG. S/C/L; 7-11" 10YR 3/1, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 6
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*ALNUS RUBRA*	FAC	100%	25%
Herb	*CAREX OBNUPTA*	OBL	30%	
Herb	*RANUNCULUS REPENS*	FACW	50%	
Herb	*VERONICA AMERICANA*	OBL	20%	25%
Woody Vine	*RUBUS URSINUS*	FACU	90%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-052 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14B-52

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/4 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	100%	5%
Herb	*CHRYSANTHEMUM LEUCANTHEMUM*	UPL	10%	
Herb	*CIRSIUM VULGARE*	FACU	20%	
Herb	*GALIUM APARINE*	FACU	10%	
Herb	*HOLCUS LANATUS*	FAC	10%	
Herb	*OXALIS OREGANA*	UPL	5%	
Herb	*PTERIDIUM AQUILINUM*	FACU	20%	
Herb	*RANUNCULUS REPENS*	FACW	20%	75%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 16%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-053 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14A-53

Soils

Mapped Series and Phase: DYSTROCHREPTS, VERY STEEP
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/1 0-18+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: ORGANIC MUCK

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	60%	
Tree	*THUJA PLICATA*	FAC	40%	50%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	40%	
Herb	*CAREX OBNUPTA*	OBL	30%	
Herb	*RANUNCULUS REPENS*	FACW	30%	40%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-054 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14A-54

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 7+"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-7" 10YR 3/3

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 5
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	30%
Sapling/Shrub	*ALNUS RUBRA*	FAC	10%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	90%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	25%	
Herb	*CAREX DEWEYANA*	FACU	5%	
Herb	*GERANIUM ROBERTIANUM*	UPL	40%	
Herb	*TOLMIEA MENZIESII*	FAC	30%	40%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment: WITHIN WETLAND MOSAIC WITH 70% WETLAND/30% UPLAND VEGETATION

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-055 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14A-55

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 0-7% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 4/2 7+"
Mottles: YES Mottle Color: 7.5YR 3/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-7" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 2
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	20%
Herb	*PHALARIS ARUNDINACEA*	FACW	100%	50%
Woody Vine	*RUBUS DISCOLOR*	FACU	70%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	30%	30%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment: Marginal wetland vegetation

Determination: **Non-Wetland**

Comment: Wetland/upland mosaic

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-056 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,PF Sample Site: TC-14A-56

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 0-7% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*ALNUS RUBRA*	FAC	100%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*POLYSTICHUM MUNITUM*	FACU	60%	
Herb	*TOLMIEA MENZIESII*	FAC	30%	20%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 60%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-057 Date: 12/05/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,JF Sample Site: TC-15-57

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/1 7+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SAND; 0-7" 7.5YR 3/1, HIGHLY ORGANIC SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	50%	
Tree	*THUJA PLICATA*	FAC	50%	40%
Herb	*CAREX OBNUPTA*	OBL	15%	
Herb	*JUNCUS EFFUSUS*	FACW	15%	
Herb	*RANUNCULUS REPENS*	FACW	40%	
Herb	*VERONICA AMERICANA*	OBL	30%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-058 Date: 12/05/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,JF Sample Site: TC-15-58

Soils

Mapped Series and Phase: WAPATO SILTY CLAY LOAM
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 4/4 0-18"
Mottles: YES Mottle Color: 7.5YR 4/4
Hydric Soil Criteria met: NO

Comment: SILT LOAM; GRAVELLY SILT LOAM AT 7+"

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	60%	
Tree	*PSEUDOTSUGA MENZIESII*	UPL	10%	
Tree	*THUJA PLICATA*	FAC	30%	40%
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	100%	5%
Herb	*AGROSTIS TENUIS*	FAC	50%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	5%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*TARAXACUM OFFICINALE*	FACU	10%	40%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-059 Date: 12/05/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,JF Sample Site: TC-15-59

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 5+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILT LOAM; 0-5" 10YR 3/1, ORGANIC MUCK

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 12
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; 1' AWAY FROM FLOWING WATER 2"D x 3'W

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	35%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	30%
Herb	*LYSICHITUM AMERICANUM*	OBL	100%	25%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 75%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-060 Date: 12/05/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,JF Sample Site: TC-15-60

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	90%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	10%	50%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	20%	
Sapling/Shrub	*ALNUS RUBRA*	FAC	15%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	65%	30%
Herb	*OXALIS OREGANA*	UPL	10%	
Herb	*POLYSTICHUM MUNITUM*	FACU	90%	15%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 40%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-061 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 23
Investigator: DC, JF Sample Site: 61

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 0-7% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: S/C/L; 10+" MIXED WITH 7.5YR 3/3, DISTURBED-CHUNKS OF GLASS

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 3
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	10%	
Herb	*DACTYLIS GLOMERATA*	FACU	5%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	70%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*VICIA SATIVA*	UPL	5%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-062 Date: 04/27/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,DG Sample Site: TC-17-62

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 15
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 12"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	40%	
Tree	*THUJA PLICATA*	FAC	40%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	20%	10%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	30%
Herb	*DICENTRA FORMOSA*	FACU	10%	
Herb	*MAIANTHEMUM DILATATUM*	FAC	10%	
Herb	*OXALIS OREGANA*	UPL	70%	
Herb	*POLYSTICHUM MUNITUM*	FACU	10%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 60%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-063 Date: 04/27/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,DG Sample Site: TC-17-63

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/2
Mottles: YES Mottle Color: 7.5YR 3/4
Hydric Soil Criteria met: YES
Comment: SILTY SANDY GRAVELLY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 2"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	10%
Sapling/Shrub	*CORNUS STOLONIFERA*	FACW	20%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*CAREX OBNUPTA*	OBL	30%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*TOLMIEA MENZIESII*	FAC	20%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-064 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC Sample Site: TC-17-64

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 7.5YR 4/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: WETLAND DRAINAGE PATTERN

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	20%	10%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	25%	
Herb	*LYSICHITUM AMERICANUM*	OBL	25%	
Herb	*OENANTHE SARMENTOSA*	OBL	25%	
Herb	*TOLMIEA MENZIESII*	FAC	25%	90%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-065 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC Sample Site: TC-17-65

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	30%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	30%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	20%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	50%	60%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	40%	
Herb	*TOLMIEA MENZIESII*	FAC	60%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-066 Date: 04/28/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,DG Sample Site: TC-17-66

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1
Mottles: NO
Hydric Soil Criteria met: YES
Comment: ORGANIC MUCK

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	5%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	20%	15%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	33%	
Herb	*CAREX OBNUPTA*	OBL	33%	
Herb	*LYSICHITUM AMERICANUM*	OBL	33%	80%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-067 Date: 04/28/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 14
Investigator: DC,DG Sample Site: TC-17-67

Soils

Mapped Series and Phase: DYSTROCHREPTS, VERY STEEP
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/4
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER CIRCINATUM*	FAC-	50%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	50%	10%
Sapling/Shrub	*ROSA PISOCARPA*	FAC	15%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	70%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	15%	10%
Herb	*HYDROPHYLLUM TENUIPES*	UPL	10%	
Herb	*OXALIS OREGANA*	UPL	75%	
Herb	*POLYSTICHUM MUNITUM*	FACU	10%	
Herb	*THELYPTERIS PHEGOPTERIS*	UPL	5%	80%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-068 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-17-68

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: YES Mottle Color: 10YR 4/6
Hydric Soil Criteria met: YES

Comment: ORGANIC SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; INUNDATION TO 4" WITHIN 1'

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*EPILOBIUM WATSONII*	FACW-	15%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*VERONICA AMERICANA*	OBL	30%	90%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 75%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-069 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-17-69

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 4/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	60%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	40%	10%
Sapling/Shrub	*GAULTHERIA SHALLON*	UPL	60%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	40%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*DIGITALIS PURPUREA*	UPL	20%	
Herb	*DRYOPTERIS DILATATA*	FACW	10%	
Herb	*OXALIS OREGANA*	UPL	30%	
Herb	*TIARELLA TRIFOLIATA*	FAC-	20%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 25%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-070 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-18-70

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/2 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: VERY ORGANIC SILTY LOAM/MUCK

Hydrology

Inundated: YES Depth: .5" Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: INUNDATED .5"-MIXED WATER/ORGANIC MATERIAL TO 2+'

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	100%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-071 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-19-71

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	50%	
Tree	*THUJA PLICATA*	FAC	50%	15%
Sapling/Shrub	*ILEX AQUIFOLIUM*	UPL	15%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	40%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	10%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	30%	20%
Herb	*OXALIS OREGANA*	UPL	80%	
Herb	*POLYSTICHUM MUNITUM*	FACU	20%	60%
Woody Vine	*RUBUS LACINIATUS*	FACU+	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 14%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-072 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-19-72

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: YES Mottle Color: 10YR 3/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM, HIGHLY ORGANIC

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; EVIDENCE OF PONDING

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	10%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	50%	
Herb	*CAREX OBNUPTA*	OBL	50%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-073 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-19-73

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 4/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	15%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	30%	
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	10%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	10%	
Sapling/Shrub	*RUBUS PARVIFLORUS*	FAC-	50%	50%
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	15%
Woody Vine	*RUBUS LACINIATUS*	FACU+	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 20%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-074 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-17-74

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*TSUGA HETEROPHYLLA*	FACU-	100%	10%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	60%	
Sapling/Shrub	*GAULTHERIA SHALLON*	FACU	40%	35%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*DICENTRA FORMOSA*	FACU	15%	
Herb	*MAIANTHEMUM DILATATUM*	FAC	15%	
Herb	*OXALIS OREGANA*	UPL	40%	
Herb	*POLYSTICHUM MUNITUM*	FACU	20%	55%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ERI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-075 Date: 04/27/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,DG Sample Site: TC-20-75

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 4/4
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	10%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	20%	
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	10%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	70%	10%
Herb	*DICENTRA FORMOSA*	FACU	33%	
Herb	*MAIANTHEMUM DILATATUM*	FAC	33%	
Herb	*RANUNCULUS REPENS*	FACW	33%	70%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 43%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-076 Date: 10/18/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC Sample Site: TC-17-76

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILTY SAND

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 3
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; INUNDATION TO 2-4+" WITHIN 2'

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	10%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	15%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	70%	
Sapling/Shrub	*THUJA PLICATA*	FAC	15%	50%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*CAREX OBNUPTA*	OBL	40%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*TOLMIEA MENZIESII*	FAC	15%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-077 Date: 04/27/94
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,DG Sample Site: TC-17-77

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1
Mottles: NO
Hydric Soil Criteria met: YES
Comment: MUCKY SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 2
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	10%
Sapling/Shrub	*PHYSOCARPUS CAPITATUS*	FACW-	30%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	70%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*CAREX OBNUPTA*	OBL	15%	
Herb	*LYSICHITUM AMERICANUM*	OBL	20%	
Herb	*MAIANTHEMUM DILATATUM*	FAC	20%	
Herb	*STACHYS EMERSONII*	FACW	10%	
Herb	*TOLMIEA MENZIESII*	FAC	10%	
Herb	*VIOLA GLABELLA*	FACW+	5%	70%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-078 Date: 10/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-20-78

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: HIGHLY ORGANIC SILT LOAM W/SOME CHARCOAL MIXED IN

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	35%
Sapling/Shrub	*ACER MACROPHYLLUM*	FACU	15%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	5%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*CAREX OBNUPTA*	OBL	20%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*MAIANTHEMUM DILATATUM*	FAC	10%	
Herb	*OENANTHE SARMENTOSA*	OBL	25%	25%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-079 Date: 10/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-20-79

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	30%
Sapling/Shrub	*BERBERIS AQUIFOLIUM*	UPL	35%	
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	25%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	40%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*OXALIS TRILLIIFOLIA*	FAC+	50%	
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	20%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 43%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-080 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-20-80

Soils

Mapped Series and Phase: DYSTROCHREPTS, VERY STEEP
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 6
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; WATER FLOWING ON SURFACE NEARBY

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	80%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-081 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-21A-81

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/1 6-10"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: S/C/L; 0-6" 7.5YR 3/3, S/L; 10-18" 7.5YR 3/3, S/L

Hydrology

Inundated: YES Depth: 5 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	10%
Sapling/Shrub	*POPULUS TRICHOCARPA*	FAC	10%	
Sapling/Shrub	*SALIX SITCHENSIS*	FACW	90%	15%
Herb	*AGROSTIS TENUIS*	FAC	20%	
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	5%	
Herb	*CAREX DENSA*	OBL	20%	
Herb	*EPILOBIUM WATSONII*	FACW-	10%	
Herb	*HOLCUS LANATUS*	FAC	25%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	35%
Woody Vine	*RUBUS DISCOLOR*	FACU	70%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	30%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 75%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-082 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-21A-82

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 5YR 3/2 7+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-7" WOOD DEBRIS AND ORGANIC DUFF

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ACER MACROPHYLLUM*	FACU	50%	
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	30%	
Sapling/Shrub	*RUBUS PARVIFLORUS*	FAC-	20%	20%
Herb	*EPILOBIUM ANGUSTIFOLIUM*	FACU+	50%	
Herb	*PTERIDIUM AQUILINUM*	FACU	50%	60%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS URSINUS*	FACU	50%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-083 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-21A-83

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 4/3 9+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-9" 7.5YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*EPILOBIUM WATSONII*	FACW-	80%	
Herb	*HOLCUS LANATUS*	FAC	20%	50%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-084 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-22-84

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/1 10+"
Mottles: YES Mottle Color: 7.5YR 3/4
Hydric Soil Criteria met: YES
Comment: MIXED W/7.5YR 3/2 BANDS, HARD PAN LAYER, S/C/L; 0-10" 7.5YR 3/2

Hydrology

Inundated: YES Depth: 4 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: WATER FLOWING 2' WIDE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	40%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	20%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment: RUDI on adjacent slopes, rooted outside of WL.

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-085 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-22-85

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 5YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-1" MIXED WITH DOUG. FIR NEEDLE DEBRIS

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	20%	
Tree	*PSEUDOTSUGA MENZIESII*	UPL	80%	35%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	55%	
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	25%	
Sapling/Shrub	*GAULTHERIA SHALLON*	UPL	10%	
Sapling/Shrub	*ILEX AQUIFOLIUM*	UPL	10%	30%
Herb	*HEDERA HELIX*	UPL	10%	
Herb	*POLYSTICHUM MUNITUM*	FACU	30%	
Herb	*VANCOUVERIA HEXANDRA*	UPL	30%	
Herb	*VINCA MAJOR*	UPL	30%	30%
Woody Vine	*RUBUS URSINUS*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-086 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-21A-86

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/1 3-10"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: ORGANIC S/L; 0-3" MIXED ORG. & WEEDY DEBRIS; 10-18" MIXED MATRIX

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 2
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	20%
Herb	*AGROSTIS TENUIS*	FAC	25%	
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*CAREX DEWEYANA*	FAC+	5%	
Herb	*EPILOBIUM WATSONII*	FACW-	25%	
Herb	*HOLCUS LANATUS*	FAC	20%	
Herb	*VERONICA AMERICANA*	OBL	15%	60%
Woody Vine	*RUBUS DISCOLOR*	FACU	70%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	30%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-087 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-I-87

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/2 0-16"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 16-18" 7.5YR 4/3

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 3
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	20%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	55%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	50%	
Herb	*POLYSTICHUM MUNITUM*	FACU	50%	5%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 60%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-088 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-21B-88

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 7.5YR 3/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 12
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*SALIX SCOULERIANA*	FAC	100%	10%
Herb	*EPILOBIUM WATSONII*	FACW-	15%	
Herb	*RANUNCULUS REPENS*	FACW	25%	
Herb	*SCIRPUS MICROCARPUS*	OBL	20%	
Herb	*STACHYS COOLEYAE*	FACW	30%	
Herb	*VERONICA AMERICANA*	OBL	20%	90%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-089 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-21B-89

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 4/4 9-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: S/C/L WITH MORE CLAY; 0-9" 10YR 3/2, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED BELOW 4"; MOIST TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	100%	10%
Herb	*EPILOBIUM WATSONII*	FACW-	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	10%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*SENECIO JACOBAEA*	UPL	25%	
Herb	*UNKNOWN GRAZED GRASSES*	UPL	30%	40%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 20%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-090 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-21C-90

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 4/4 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*FESTUCA ARUNDINACEA*	FAC-	25%	
Herb	*PLANTAGO LANCEOLATA*	FAC	10%	
Herb	*RANUNCULUS REPENS*	FACW	15%	
Herb	*UNKNOWN MOWED LAWN GRASS*	UPL	50%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-091 Date: 11/16/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-21C-91

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 7-18"
Mottles: YES Mottle Color: 7.5YR 3/4
Hydric Soil Criteria met: YES
Comment: S/C/L W/COBBLES; 0-7" 7.5YR 4/3, S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 3
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*FESTUCA ARUNDINACEA*	FAC-	10%	
Herb	*JUNCUS EFFUSUS*	FACW	10%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*RORIPPA NASTURTIUM-AQUATICUM*	OBL	10%	
Herb	*SCIRPUS MICROCARPUS*	OBL	50%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-092 Date: 10/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-24-92

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 7.5YR 4/4
Hydric Soil Criteria met: YES
Comment: S/C/L, MIXED MATRIX W/SOME 10YR 4/1

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: >10
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*EPILOBIUM WATSONII*	FACW-	25%	
Herb	*EQUISETUM ARVENSE*	FAC	10%	
Herb	*JUNCUS PATENS*	FACW	20%	
Herb	*RANUNCULUS REPENS*	FACW	20%	
Herb	*SCIRPUS MICROCARPUS*	OBL	20%	
Herb	*SONCHUS ASPER*	FAC-	5%	85%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 80%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-093 Date: 10/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-24-93

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 9+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILT LOAM; 0-9" 10YR 3/1

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	40%	
Tree	*ALNUS RUBRA*	FAC	20%	
Tree	*THUJA PLICATA*	FAC	40%	30%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	25%	
Sapling/Shrub	*CRATAEGUS DOUGLASII*	FAC	30%	
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	35%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	10%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*OXALIS OREGANA*	UPL	30%	
Herb	*POLYPODIUM GLYCYRRHIZA*	UPL	20%	
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	20%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 30%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-094 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-25-94

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: YES Mottle Color: 10YR 4/4 9+"
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: >16
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 5"; MOIST AT SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	50%	
Tree	*THUJA PLICATA*	FAC	50%	20%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	100%	10%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	50%	
Herb	*LYSICHITUM AMERICANUM*	OBL	20%	
Herb	*OXALIS OREGANA*	UPL	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	15%	70%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 80%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-095 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DC Sample Site: TC-25-95

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: DRY, SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	60%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	40%	20%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	30%	
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	20%	
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	50%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*DISPORUM SP.*	UPL	10%	
Herb	*OXALIS OREGANA*	UPL	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	20%	
Herb	*VANCOUVERIA HEXANDRA*	UPL	20%	50%
Woody Vine	*RUBUS URSINUS*	FACU	100%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 20%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-096 Date: 10/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-26-96

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: BLACK ORGANIC SILT LOAM

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	20%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	90%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	10%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*OENANTHE SARMENTOSA*	OBL	30%	
Herb	*TOLMIEA MENZIESII*	FAC	10%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-097 Date: 10/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DC Sample Site: TC-26-97

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	25%	
Tree	*THUJA PLICATA*	FAC	75%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*DRYOPTERIS DILATATA*	FACW	30%	
Herb	*OXALIS TRILLIIFOLIA*	FAC+	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	20%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-098 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-26-98

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 2/1 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: HIGHLY ORGANIC SOIL W/LOAM, MIXED W/WOOD DEBRIS AND MOSTLY DUFF

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 5
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	25%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	30%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	70%	25%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*DRYOPTERIS DILATATA*	FACW	5%	
Herb	*LYSICHITUM AMERICANUM*	OBL	25%	
Herb	*OENANTHE SARMENTOSA*	OBL	35%	
Herb	*TOLMIEA MENZIESII*	FAC	25%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-099 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DK Sample Site: TC-26-99

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/3 5-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-5" ORGANIC DUFF

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	80%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	20%	50%
Sapling/Shrub	*ILEX AQUIFOLIUM*	UPL	25%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	50%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	25%	25%
Herb	*DRYOPTERIS DILATATA*	FACW	20%	
Herb	*OXALIS OREGANA*	UPL	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	50%	25%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 38%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-100 Date: 10/19/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-27-100

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 8-16"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-8" 10YR 2/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 16
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED AT 10"

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	20%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	65%	
Herb	*POLYSTICHUM MUNITUM*	FACU	15%	
Herb	*TOLMIEA MENZIESII*	FAC	10%	
Herb	*TRIFOLIUM REPENS*	FACU+	10%	30%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	50%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ERI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-101 Date: 10/19/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-28-101

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 4+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: ORGANIC SILT LOAM; 0-4" 10YR 3/2

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: 2' N. FROM PONDED AREA

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*POPULUS TRICHOCARPA*	FAC	20%	
Sapling/Shrub	*SALIX SITCHENSIS*	FACW	80%	30%
Herb	*AGROSTIS ALBA*	FACW	10%	
Herb	*ELEOCHARIS PALUSTRIS*	OBL	20%	
Herb	*EPILOBIUM WATSONII*	FACW-	5%	
Herb	*JUNCUS EFFUSUS*	FACW	5%	
Herb	*SCIRPUS MICROCARPUS*	OBL	60%	65%
Woody Vine	*RUBUS LACINIATUS*	FACU+	20%	
Woody Vine	*RUBUS URSINUS*	FACU	80%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-102 Date: 10/19/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-27-102

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-6"
Mottles: YES Mottle Color: 5YR 4/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 6+" 10YR 3/2; ROCKY BELOW 16"

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	70%	
Tree	*THUJA PLICATA*	FAC	30%	20%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	100%	5%
Herb	*AGROSTIS ALBA*	FACW	20%	
Herb	*HOLCUS LANATUS*	FAC	15%	
Herb	*PHALARIS ARUNDINACEA*	FACW	15%	
Herb	*RANUNCULUS REPENS*	FACW	50%	70%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	5%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-103 Date: 10/19/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DK Sample Site: TC-27-103

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 2.5YR 2.5/1
Mottles: NO
Hydric Soil Criteria met: YES
Comment: 0-12", SILT LOAM, SOME CLAY; 12-16" 7.5YR 3/3

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS ALBA*	FACW	30%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	40%	
Herb	*HOLCUS LANATUS*	FAC	20%	
Herb	*TARAXACUM OFFICINALE*	FACU	10%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 67%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-104 Date: 10/19/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-27-104

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 5Y 2.5/1 11+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SANDY S/L; 0-6" 10YR 2/1, ORG. LOAM; 6-11" 10YR 3/1 W/WOOD DEBRIS

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 12
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	80%	
Tree	*THUJA PLICATA*	FAC	20%	60%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	50%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	50%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	60%	
Herb	*LYSICHITUM AMERICANUM*	OBL	40%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 83%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-105 Date: 10/19/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-27-105

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/3 1-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-1" ORGANIC LAYER

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	5%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	10%	
Sapling/Shrub	*THUJA PLICATA*	FAC	5%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*OXALIS OREGANA*	UPL	60%	
Herb	*POLYSTICHUM MUNITUM*	FACU	20%	
Herb	*STACHYS COOLEYAE*	FACW	5%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-106 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DK Sample Site: TC-J-106

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 5+"
Mottles: YES Mottle Color: 5YR 3/3
Hydric Soil Criteria met: YES

Comment: SILTY CLAY LOAM; 0-5" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 12
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; 1' FROM FLOWING WATER

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	50%	
Tree	*THUJA PLICATA*	FAC	50%	35%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	25%	
Herb	*CAREX OBNUPTA*	OBL	50%	
Herb	*OENANTHE SARMENTOSA*	OBL	10%	
Herb	*OXALIS OREGANA*	UPL	5%	
Herb	*TIARELLA TRIFOLIATA*	FAC-	10%	35%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-107 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DK Sample Site: TC-J-107

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/2 0-18"
Mottles: YES Mottle Color: 2.5YR 4/3
Hydric Soil Criteria met: YES

Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	40%	
Tree	*THUJA PLICATA*	FAC	60%	40%
Sapling/Shrub	*RHAMNUS PURSHIANA*	FAC-	50%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	50%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*OXALIS OREGANA*	UPL	20%	
Herb	*POLYSTICHUM MUNITUM*	FACU	60%	
Herb	*TOLMIEA MENZIESII*	FAC	10%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-108 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF,DK Sample Site: TC-J-108

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 3+"
Mottles: YES Mottle Color: 5YR 4/4
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-3" 10YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 10
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	40%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*BLECHNUM SPICANT*	FAC+	20%	
Herb	*OENANTHE SARMENTOSA*	OBL	20%	
Herb	*TOLMIEA MENZIESII*	FAC	30%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

GRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-109 Date: 10/18/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 24
Investigator: JF ,DK Sample Site: TC-J-109

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 4/4 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	25%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	85%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	15%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*OXALIS OREGANA*	UPL	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	25%	
Herb	*TOLMIEA MENZIESII*	FAC	30%	45%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 60%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-110 Date: 12/05/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: JF ,DC Sample Site: TC-J-110

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 2.5/3 9+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM; 0-9" 7.5YR 2.5/1

Hydrology

Inundated: YES Depth: 4 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	30%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	10%	
Herb	*HYPOCHAERIS RADICATA*	UPL	20%	
Herb	*PLANTAGO LANCEOLATA*	FAC	10%	
Herb	*RANUNCULUS REPENS*	FACW	15%	
Herb	*TARAXACUM OFFICINALE*	FACU	15%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ERI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-111 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 19
Investigator: JF ,PF Sample Site: TC-K-111

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	100%	20%
Herb	*AGROSTIS TENUIS*	FAC	70%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	20%	
Herb	*TARAXACUM OFFICINALE*	FACU	5%	80%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-112 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC,JF Sample Site: TC-M-112

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/3 11+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-11" 7.5YR 3/2

Hydrology

Inundated: YES Depth: 2 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; RECENT RAINS - SEASONAL FLOW

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	100%	50%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	10%	
Sapling/Shrub	*OEMLERIA CERASIFORMIS*	FACU	20%	
Sapling/Shrub	*SYMPHORICARPOS ALBUS*	FACU	70%	25%
Herb	*HEDERA HELIX*	UPL	15%	
Herb	*POLYSTICHUM MUNITUM*	FACU	80%	
Herb	*VANCOUVERIA HEXANDRA*	UPL	5%	10%
Woody Vine	*RUBUS DISCOLOR*	FACU	50%	
Woody Vine	*RUBUS URSINUS*	FACU	50%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-113 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: JF,PF Sample Site: TC-L-113

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/4 5-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 6
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS TENUIS*	FAC	40%	
Herb	*HOLCUS LANATUS*	FAC	15%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*PLANTAGO LANCEOLATA*	FAC	5%	
Herb	*RANUNCULUS REPENS*	FACW	10%	
Herb	*SENECIO JACOBAEA*	UPL	20%	80%
Woody Vine	*RUBUS LACINIATUS*	FACU+	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-114 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: JF,PF Sample Site: TC-L-114

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROSTIS STOLONIFERA*	FAC-	20%	
Herb	*AGROSTIS TENUIS*	FAC	20%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	30%	
Herb	*PHALARIS ARUNDINACEA*	FACW	30%	80%
Woody Vine	*RUBUS DISCOLOR*	FACU	100%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 40%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-115 Date: 12/01/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: JF,PF Sample Site: TC-L-115

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*AGROPYRON REPENS*	FAC-	10%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	20%	
Herb	*HOLCUS MOLLIS*	UPL	20%	
Herb	*HYPOCHAERIS RADICATA*	UPL	10%	
Herb	*POA SP.*	FACU	40%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 0%
Hydrophytic Vegetation Criteria met: NO

Comment: MOWED, SEEDED GRASS MIX

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-116 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC, JF Sample Site: TC-29-116

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: YES Mottle Color: 7.5YR 3/3
Hydric Soil Criteria met: YES

Comment: SILTY SAND LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SAT. TO SURF.; ADJ. TO SIDE SEEP AND 1' FROM THE STREAM

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	15%	
Herb	*CAREX OBNUPTA*	OBL	20%	
Herb	*JUNCUS EFFUSUS*	FACW	10%	
Herb	*POA ANNUA*	FAC	25%	
Herb	*RANUNCULUS REPENS*	FACW	30%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

ORI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-117 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-29-117

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/2 5-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-5" 7.5YR 4/4

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	35%	
Tree	*ALNUS RUBRA*	FAC	20%	
Tree	*PSEUDOTSUGA MENZIESII*	UPL	30%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	15%	50%
Sapling/Shrub	*ILEX AQUIFOLIUM*	UPL	50%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	50%	10%
Herb	*OXALIS OREGANA*	UPL	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	70%	25%
Woody Vine	*RUBUS URSINUS*	FACU	100%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 13%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-118 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-N-118

Soils

Mapped Series and Phase: COTTRELL SILTY CLAY LOAM, 2-8% SLOPES
On Hydric Soils List: NO
Drainage Class: MODERATELY WELL DRAINED Matrix Color: 7.5YR 3/3
Mottles: NO
Hydric Soil Criteria met: NO
Comment: 11-18", SILTY CLAY LOAM; 0-11" 7.5YR 3/2

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	50%	
Tree	*THUJA PLICATA*	FAC	50%	45%
Herb	*HEDERA HELIX*	UPL	50%	
Herb	*HERACLEUM LANATUM*	FAC+	15%	
Herb	*POLYPODIUM GLYCYRRHIZA*	UPL	20%	
Herb	*POLYSTICHUM MUNITUM*	FACU	15%	40%
Woody Vine	*RUBUS URSINUS*	FACU	100%	15%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 20%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-119 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-30-119

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 2.5Y 4/2 10+"
Mottles: NO
Hydric Soil Criteria met: YES

Comment: SAND; 0-10" 10YR 3/2, FINE S/C/L

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 8
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: STREAM FLOWING 2-3" D X 2-3' W WITH BRAIDED CHANNELS

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	30%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*THUJA PLICATA*	FAC	20%	50%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	10%	
Herb	*OXALIS TRILLIIFOLIA*	FAC+	50%	
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 80%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-120 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-30-120

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	30%	
Tree	*ALNUS RUBRA*	FAC	40%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	30%	35%
Sapling/Shrub	*BERBERIS NERVOSA*	UPL	50%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	50%	15%
Herb	*OXALIS OREGANA*	UPL	10%	
Herb	*POLYSTICHUM MUNITUM*	FACU	90%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 17%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-121 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-30-121

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/3 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	30%	
Tree	*POPULUS TRICHOCARPA*	FAC	20%	
Tree	*THUJA PLICATA*	FAC	40%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	10%	50%
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	50%	
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	50%	15%
Herb	*HEDERA HELIX*	UPL	40%	
Herb	*POLYSTICHUM MUNITUM*	FACU	60%	35%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 43%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-122 Date: 11/17/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-30-122

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 7-12% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/1 0-18"
Mottles: YES Mottle Color: 7.5YR 3/3
Hydric Soil Criteria met: YES
Comment: SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 3 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	30%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	80%	
Sapling/Shrub	*THUJA PLICATA*	FAC	20%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	40%	
Herb	*LYSICHITUM AMERICANUM*	OBL	60%	50%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-123 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC,JF Sample Site: TC-32-123

Soils

Mapped Series and Phase: BORGES SILTY CLAY LOAM, 0-8% SLOPES
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 7.5YR 3/2 10+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-10" 10YR 2/2

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ABIES GRANDIS*	FACU-	100%	50%
Sapling/Shrub	*CYTISUS SCOPARIUS*	UPL	80%	
Sapling/Shrub	*PRUNUS EMARGINATA*	UPL	20%	30%
Herb	*CHRYSANTHEMUM LEUCANTHEMUM*	UPL	30%	
Herb	*HYPOCHAERIS RADICATA*	UPL	30%	
Herb	*POA ANNUA*	FAC	40%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 17%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-124 Date: 11/29/95
County: CLACKAMAS State: OR Township: 2S Range: 4E Section: 13
Investigator: DC, JF Sample Site: 124

Soils

Mapped Series and Phase: BORGES SILTY CLAY LOAM, 0-8% SLOPES
On Hydric Soils List: YES
Drainage Class: POORLY DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SAND

Hydrology

Inundated: YES Depth: 3 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Sapling/Shrub	*ALNUS RUBRA*	FAC	40%	
Sapling/Shrub	*SALIX LASIANDRA*	FACW+	60%	20%
Herb	*AGROSTIS STOLONIFERA*	FAC-	10%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*SCIRPUS MICROCARPUS*	OBL	50%	
Herb	*VERONICA AMERICANA*	OBL	20%	80%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-125 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC, JF Sample Site: CC-1-125

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 2.5Y 5/2 7+"
Mottles: YES Mottle Color: 7.5YR 4/6
Hydric Soil Criteria met: YES
Comment: COBBLY SILTY CLAY LOAM

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	40%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	25%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*OENANTHE SARMENTOSA*	OBL	30%	
Herb	*POLYSTICHUM MUNITUM*	FACU	15%	60%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-126 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC, JF Sample Site: CC-1-126

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	20%	
Tree	*THUJA PLICATA*	FAC	70%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	10%	40%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	15%	
Sapling/Shrub	*CORYLUS CORNUTA*	FACU	5%	
Sapling/Shrub	*SAMBUCUS RACEMOSA*	FACU	5%	
Sapling/Shrub	*VACCINIUM PARVIFOLIUM*	UPL	75%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	20%	
Herb	*OXALIS OREGANA*	UPL	5%	
Herb	*POLYSTICHUM MUNITUM*	FACU	75%	40%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 40%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-127 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC,JF Sample Site: CC-2-127

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/1 9-12"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: MUCKY SILT LOAM; 0-9" 10YR 3/2; ROCKY BELOW 12"

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; FLOWING WATER

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	100%	50%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	100%	20%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	30%	
Herb	*LYSICHITUM AMERICANUM*	OBL	40%	
Herb	*OENANTHE SARMENTOSA*	OBL	10%	
Herb	*OXALIS TRILLIIFOLIA*	FAC+	20%	30%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 80%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-128 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC,JF Sample Site: CC-2-128

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 4/3 7+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: COBBLY SILTY CLAY LOAM; 0-7" 7.5YR 3/2, SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER CIRCINATUM*	FAC-	20%	
Tree	*ACER MACROPHYLLUM*	FACU	30%	
Tree	*ALNUS RUBRA*	FAC	30%	
Tree	*TSUGA HETEROPHYLLA*	FACU-	20%	80%
Herb	*OXALIS TRILLIIFOLIA*	FAC+	25%	
Herb	*POLYSTICHUM MUNITUM*	FACU	40%	
Herb	*TOLMIEA MENZIESII*	FAC	35%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 43%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-129 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC, JF Sample Site: CC-2-129

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 3/2 0-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; SURFACE COVERED WITH LEAF LITTER

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ACER MACROPHYLLUM*	FACU	30%	
Tree	*ALNUS RUBRA*	FAC	50%	
Tree	*THUJA PLICATA*	FAC	20%	40%
Sapling/Shrub	*ACER CIRCINATUM*	FAC-	100%	15%
Herb	*ADIANTUM PEDATUM*	FAC	15%	
Herb	*ASARUM CAUDATUM*	UPL	10%	
Herb	*DIGITALIS PURPUREA*	UPL	5%	
Herb	*MONTIA SIBIRICA*	UPL	10%	
Herb	*OXALIS OREGANA*	UPL	20%	
Herb	*POLYSTICHUM MUNITUM*	FACU	35%	
Herb	*TELLIMA GRANDIFLORA*	UPL	5%	45%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-130 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 18
Investigator: DC,JF Sample Site: CC-2-130

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 5Y 3/1 5+"
Mottles: NO
Hydric Soil Criteria met: YES
Comment: SILT LOAM; 0-5" 10YR 3/2, SANDY SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 0
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	25%	
Herb	*LYSICHITUM AMERICANUM*	OBL	30%	
Herb	*MONTIA SIBIRICA*	UPL	10%	
Herb	*OXALIS TRILLIIFOLIA*	FAC+	20%	
Herb	*TOLMIEA MENZIESII*	FAC	15%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-131 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 19
Investigator: DC,JF Sample Site: CC-3-131

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 12-20% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 10YR 3/2 0-18"
Mottles: YES Mottle Color: 2.5YR 3/4
Hydric Soil Criteria met: YES
Comment: MUCKY SILT LOAM

Hydrology

Inundated: YES Depth: 1 " Saturated Soils: YES Depth to Water Table: <18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; H2S ODOR; FLOWING SURF. WATER IN SWALE

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Herb	*EPILOBIUM WATSONII*	FACW-	10%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	15%	
Herb	*JUNCUS BUFONIUS*	FACW	5%	
Herb	*JUNCUS EFFUSUS*	FACW	20%	
Herb	*RANUNCULUS REPENS*	FACW	50%	100%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-132 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 19
Investigator: DC,JF Sample Site: CC-3-132

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 12-20% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 4/3 10+"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILTY CLAY LOAM; 0-10" 10YR 3/2, SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ILEX AQUIFOLIUM*	UPL	100%	25%
Herb	*AGROSTIS TENUIS*	FAC	40%	
Herb	*FESTUCA ARUNDINACEA*	FAC-	60%	75%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 33%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

RI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-133 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 19
Investigator: DC,JF Sample Site: CC-4-133

Soils

Mapped Series and Phase: CAZADERO SILTY CLAY LOAM, 12-20% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 7.5YR 4/4 5-18"
Mottles: NO
Hydric Soil Criteria met: NO
Comment: SILT LOAM; 0-5" 7.5YR 3/3

Hydrology

Inundated: NO Depth: " Saturated Soils: NO Depth to Water Table: >18
Active Oxidized Rhizospheres Present: NO Wetland Hydrology Criteria met: NO
Comment:

Vegetation

Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*THUJA PLICATA*	FAC	100%	60%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	20%
Herb	*OXALIS OREGANA*	UPL	10%	
Herb	*POLYSTICHUM MUNITUM*	FACU	90%	10%
Woody Vine	*RUBUS DISCOLOR*	FACU	90%	
Woody Vine	*RUBUS LACINIATUS*	FACU+	10%	10%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 50%
Hydrophytic Vegetation Criteria met: NO

Comment:

Determination: **Non-Wetland**

Comment:

WETLAND DELINEATION DATA FORM

SRI/SHAPIRO

Routine Onsite Method

Applicant: DIVISION OF STATE LANDS Project #: 95080-134 Date: 12/06/95
County: CLACKAMAS State: OR Township: 2S Range: 5E Section: 19
Investigator: DC,JF Sample Site: CC-4-134

Soils

Mapped Series and Phase: KLICKITAT STONY LOAM, 30-60% SLOPES
On Hydric Soils List: NO
Drainage Class: WELL DRAINED Matrix Color: 5Y 6/2 10+"
Mottles: YES Mottle Color: 7.5YR 5/8
Hydric Soil Criteria met: YES
Comment: ALSO 5G 6/1 MOTTS., CLAY; 0-10" 10YR 3/2, VERY ORGANIC SILT LOAM

Hydrology

Inundated: NO Depth: " Saturated Soils: YES Depth to Water Table: 13
Active Oxidized Rhizospheres Present: YES Wetland Hydrology Criteria met: YES
Comment: SOIL SATURATED TO SURFACE; STRONG H2S ODOR

Vegetation

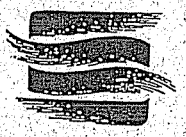
Type	Dominant Species	FWS Status	Stratum	Overall
Tree	*ALNUS RUBRA*	FAC	40%	
Tree	*THUJA PLICATA*	FAC	60%	50%
Sapling/Shrub	*RUBUS SPECTABILIS*	FAC+	100%	30%
Herb	*ATHYRIUM FILIX-FEMINA*	FAC	35%	
Herb	*LYSICHITUM AMERICANUM*	OBL	50%	
Herb	*POLYSTICHUM MUNITUM*	FACU	15%	20%

Percentage of dominant (>= 20%) species that are FAC, FACW or OBL: 100%
Hydrophytic Vegetation Criteria met: YES

Comment:

Determination: **Wetland**

Comment:



Appendix B

Summary Sheets

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 11/10/95	**Wetland Mapping Code:** TC–1
Investigator(s): JF, DK	**Size (acres):** 0.11
Data Sheet Numbers: 6	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** AC900
Other: N. of Olson St., W. of 377th Ave.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Surface water, ground water, stream

Wetland Classification(s): PEM, POW

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Rubus spectabilis	*Rubus ursinus*	*Ranunculus repens*

Comments

Excavated pond in forest clearing. Soils are disturbed due to excavation. Pond is ~40' x 50' wide. Surrounding area is forested with Thuja plicata, Acer macrophyllum, Alnus rubra, and Pseudotsuga menziesii. Other species present on pond margin are Agrostis sp., Carex deweyana, Stachys cooleyae, and Veronica americana. Surrounded by residential development to N. and E., tree nurseries to the west and south. Outgoing drainage is not wetland. Pond is open water with some wetland vegetation occurring on the edges.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/12/95	**Wetland Mapping Code:** TC–2
Investigator(s): DC, DK	**Size (acres):** 0.20
Data Sheet Numbers: N/A	

Location

Legal: T2S R4E Sec. 14	**Tax Lot(s):** 100
Other: NE of Kate Schnitzer Ave. and Hwy. 26	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Surface water, ground water

Wetland Classification(s): PEM, POW

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Salix scouleriana*		*Callitriche stagnalis*
Populus trichocarpa			*Juncus effusus*
Thuja plicata			*Phalaris arundinacea*
			Polygonum hydropiper
			Rumex occidentalis
			Sparganium emersum

Comments

These ponds are part of an environmental learning center. Two man–made ponds were excavated/dammed to be used primarily for irrigation of athletic fields. They both exhibit wetland characteristics. The upper (eastern) pond is steep–banked and has only a fringe of wetland plants. The lower (western) pond is shallower and contains wide areas of wetland plants. Water flows out of the lower pond and flows in a created stream bed partially lined with pond liner and rocks. Late in the summer, the outlet water soaks into the ground downstream of the outlet and re–emerges at the western property boundary (TC–3). Soils sampled in both pond edges exhibited wetland characteristics.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/12/95	**Wetland Mapping Code:** TC–3
Investigator(s): DC, DK	**Size (acres):** 1.09
Data Sheet Numbers: 8, 9	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** 3300, 3402, 4400, 3500
Other: Stream NW of Thriftway, downstream from High School	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Intermittent stream, surface water, ground water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus discolor*	*Oenanthe sarmentosa*
			Ranunculus repens
			Rumex sp.

Comments

Flood plain of unnamed creek. Hydrologic source: upstream ponds on school property. Other herbaceous vegetation present: Festuca arundinacea. Wetland is on banks of Alnus rubra–dominated riparian area which is 50–75' wide. Surrounding upland dominated by Acer macrophyllum. Relatively undisturbed wildlife habitat with song bird species present: American robin, Black–capped chickadee, Song sparrow.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/12, 11/10/95	**Wetland Mapping Code:** TC–4
Investigator(s): JF, SD, DC, DK	**Size (acres):** 1.95
Data Sheet Numbers: 10, 11, 12, 13	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** 3300
Other: S. of west end of Olson Rd., S. of tree nursery, N. of Hwy 26	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Wapato silty clay loam (hydric), Cttrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, ground water, surface water

Wetland Classification(s): POW, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Alnus rubra	*Rubus discolor*	*Agrostis tenuis*
	Salix lasiandra		*Elymus triticoides*
			Festuca arundinacea
			Juncus effusus
			Lotus corniculatus
			Scirpus microcarpus
			Typah latifolia

Comments

Buffleheads observed on stock pond. Unnamed stream flows into wetland area from the southeast and into stock pond. Flooded field dominated by herbaceous species east of the pond. Evidence of a leaky drain tile system. Pond is mostly open water with wetland fringe along edge. Forested along south edge. Weedy, grasses and forbs dominate upland area to the north. Open area to the south is a cow pasture.

North of the main pond area is a former cattail pond (identified on Draft LWI as TC–F) that has been filled with at least 12" of woodchip material. Other herbaceous vegetation includes Holcus lanatus, Epilobium watsonii.

Tree nursery to the northeast, with some surrounding rural residential properties.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/12/95	**Wetland Mapping Code:** TC–5
Investigator(s): JF, SD, DC, DK	**Size (acres):** 1.23
Data Sheet Numbers: 14, 15, 16, 17	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** 3200, 3300
Other: W. end of stream, W. of stock pond	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Wapato silty clay loam (hydric); Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, ground water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Crataegus douglasii	*Acer circinatum*		*Athyrium filix–femina*
	Rubus spectabilis		*Lysichitum americanum*

Comments

Wildlife habitat – good structural diversity, but unrestricted access to stream from cow pastures to the south. Bird species observed: Stellar's jay, Winter wren, Red–breasted nuthatch, Black–capped chickadee. No urban noise. Limited access (no roads), so low educational/recreational value. Adjacent upland areas vegetated with Pseudotsuga menziesii, Alnus rubra, Holodiscus discolor, Symphoricarpos albus, Polystichum munitum, and Tiarella trifoliata. Stream width varies 2–4' wide, 1' deep.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 12/1/95	**Wetland Mapping Code:** TC–6
Investigator(s): JF, PF	**Size (acres):** 3.5
Data Sheet Numbers: 26, 27	

Location

Legal: T2S R4E Sec. 10	**Tax Lot(s):** 5602, 5603
Other: Under powerlines, N. of Hwy. 26, W. of UGB	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Wapato silty clay loam (hydric)*

Hydrology

Hydrologic Source: Stream, surface water, ground water

Wetland Classification(s): PSS, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Alnus rubra	*Rubus discolor*	*Holcus lanatus*
	Salix scouleriana	*Rubus laciniatus*	*Juncus effusus*
	Spiraea douglasii		*Ranunculus repens*

Comments

Wetland area fed by two stream channels from the east. Hwy. 26 is located >400+' to the south. Surrounding area to the east is active pastureland. Swale flooded at time of site visit. Area to west is alder forest. Adjacent Seasonally ponded emergent area and dirt trail access from the north.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Verification:	12/1/95	**Wetland Mapping Code:**	TC–7
Investigator(s):	JF, PF	**Size (acres):**	1.56
Data Sheet Numbers:	20, 21, 22, 23, 24, 25		

Location

Legal:	T2S R4E Sec. 10, 11	**Tax Lot(s):**	5600, 5602, 5603, 3200
Other:	N. of Hwy. 26, SW of powerlines, NW UGB		
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes; Wapato silty clay loam (hydric)*

Hydrology

Hydrologic Source: Surface water, ground water, stream

Wetland Classification(s): POW, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
			Agrostis tenuis
			Glyceria sp.
			Juncus effusus

Comments

Intermittent drainageway through a pasture swale widens to 20' wide, with flowing water 8" deep. Culverted under a dirt roadway. Two excavated stock ponds are fed by this drainage. Margins of ponds are vegetated but ponds are open water. Surrounding ground has been disturbed – grazed, soil compaction by cows. No public access. Aesthetic quality low, not much structural diversity. Surrounding upland dominated by Rubus discolor, Festuca arundinacea, Agrostis tenuis.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Verification: 10/26/95	**Wetland Mapping Code:** TC–8
Investigator(s): JF, DK	**Size (acres):** 1.71
Data Sheet Numbers: 30, 31, 32, 33	

Location

Legal: T2S R4E Sec. 10, 15	**Tax Lot(s):** 5200, 5700, 290, 100
Other: W. of 362nd Drive, S. of Pioneer Park	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 8–15% slopes*

Hydrology

Hydrologic Source: Stream, surface water, ground water

Wetland Classification(s): PEM, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Salix scouleriana*	*Rubus discolor*	*Athyrium filix–femina*
	Symphoricarpos albus	*Rubus laciniatus*	*Holcus lanatus*
			Juncus effusus
			Phalaris arundinacea
			Ranunculus repens
			Tolmiea menziesii

Comments

Narrow drainage at N. end of field, immediately west of 362nd, 1–3' wide is dominated by herbaceous wetland vegetation. Emerges from two 18" diameter concrete culvert (mostly filled with silt). Widens to 75+' wide Salix scouleriana dominated wetland. Adjacent park (N.) dominated by Pseudotsuga menziesii. Upland sign of deer presence. Black–capped chickadees, California quail present. Drainage narrows to the west and flows through a palustrine emergent field.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Verification: 10/26/95	**Wetland Mapping Code:** TC–9
Investigator(s): JF, DK	**Size (acres):** 0.86
Data Sheet Numbers: 34, 35	

Location

Legal: T2S R4E Sec. 10, 15	**Tax Lot(s):** 5000, 5100 , 900
Other: Sobella Farms Tree Nursery S. of Hwy. 26	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 8–15% slopes*

Hydrology

Hydrologic Source: Stream, surface water

Wetland Classification(s): PEM, PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Populus trichocarpa*	*Rubus discolor*	*Epilobium watsonii*
Salix spp.			*Equisetum arvense*
			Juncus effusus
			Phalaris arundinacea
			Ranunculus repens
			Scirpus microcarpus
			Typha latifolia
			Veronica americana

Comments

Manipulated channel through south end of tree nursery. Sections culverted under dirt roads and berms. Some sections lined with large boulders. Widens to 10–15" wide, with banks 25' high. At southwest end of nursery, main drainage channel flows southwest to forested Tickle Creek. Narrow drainage diverted NW to large created pond. Possible wetland fill in pond vicinity. Disturbed soils, scattered wetland vegetation. Mallards present on pond. Rubus discolor and Pahlaris arundinacea dominate the wetland fringe along stream channel in a section with lower wildlife habitat function, at eastern end where channel is possibly manipulated. Soils are non–hydric, and channel appears excavated.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Verification: 10/26/95	**Wetland Mapping Code:** TC–10
Investigator(s): JF, DK	**Size (acres):** 2.15
Data Sheet Numbers: 36	

Location

Legal: T2S R4E Sec. 10	**Tax Lot(s):** 5000, 5100, 3800
Other: Pond at SW corner of Sobella Farms Tree Nursery	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *N/A*

Hydrology

Hydrologic Source: Stream, ground water

Wetland Classification(s): POW, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
			Juncus effusus
			Ranunculus repens

Comments

Created pond at SW corner of nursery. Receives water from drainage channel flowing from the east, through culvert. Pond used to recapture irrigation runoff. Few trees around south perimeter of pond, but mostly POW. Appears that wetland may have been filled to create berm around pond. Pond is 300' long and 150' wide. Mallards observed on pond during site visit.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/26/95	**Wetland Mapping Code:** TC–11
Investigator(s): JF, DK	**Size (acres):** 0.18
Data Sheet Numbers: 40	

Location

Legal: T2S R4E Sec. 10	**Tax Lot(s):** 3800, 5000
Other: W. of pond and fill area of Sobella Farms nursery	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Klickitat stony loam, 30–60% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): PFO, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Alnus rubra	*Rubus discolor*	*Juncus effusus*
		Rubus laciniatus	*Ranunculus repens*
			Typha latifolia

Comments

This wetland is located west of a dirt road at the bottom of the western–most fill slope of Sobella Farms tree nursery. This area has recently been logged; woody debris lies in scattered piles, partially burned. Surface water feeds this wetland, draining south from slopes, and continues south toward Tickle Creek. Adjacent upland vegetation: Acer circinatum, Sambucus racemosa, Rubus spectabilis, Pseudotsuga menziesii saplings, Acer macrophyllum.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification:	10/25, 11/3/95	**Wetland Mapping Code:**	TC–12
Investigator(s):	JF, PF, DK	**Size (acres):**	4.29
Data Sheet Numbers:	37, 38, 39, 41, 42, 43, 44		

Location

Legal:	T2S R4E Sec. 10, 15	**Tax Lot(s):**	200, 800, 806, 804, 805,
Other:	Tickle Creek, N. of Skogan Rd. to Sobella		807, 802, 803, 600, 500,
	Farms tree nursery		900, 3800, 5000
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Dystrochrepts, very steep; Cottrell silty clay loam, 8–15% slopes*

Hydrology

Hydrologic Source: Stream, surface water, ground water

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Alnus rubra*	*Rubus discolor*	*Athyrium filix–femina*
Thuja plicata	*Rubus spectabilis*	*Rubus laciniatus*	*Glyceria elata*
	Salix lasiandra		*Oenanthe sarmentosa*
	Salix scouleriana		*Ranunculus repens*
			Scirpus microcarpus
			Tolmeia menziesii

Comments

Tickle Creek south of tree nursery; under BPA powerlines disturbed by clearing of trees under powerlines; but well developed herbaceous layer. 12' wide dirt road crosses Tickle Creek for access under powerlines. Two 40" round metal culverts under road. At the time of the site visit, water was flowing over the road, washing out small portions. East of the road is a flooded 70' wide beaver pond, 1–3' deep. Obvious beaver signs in this area. East of the pond, the creek narrows to 12' wide, and varies from 6–16" deep. Scrub/shrub and forested stream has a cobbly bottom. Approximately 800' upstream from powerlines, a 30' x 30' seep area is located east of the creek and flows 1–5' wide across old dirt road and into Tickle Creek. Adjacent upland vegetation: Thuja plicata, Corylus cornuta, Oxalis oregana, Rhamnus purshiana. See Pacific Habitat Services wetland delineation for this area.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification:	10/25/95	**Wetland Mapping Code:**	TC–13
Investigator(s):	PF, DK	**Size (acres):**	2.05
Data Sheet Numbers:	45, 46, 47, 48		

Location

Legal:	T2S R4E Sec. 14	**Tax Lot(s):**	BC8590, BC8600, CB100,
Other:	Tickle Creek E. of 362nd Avenue to edge of new development: Double Creek Estates		1700
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Wapato silty clay loam (hydric)*

Hydrology

Hydrologic Source: Stream, ground water, surface water

Wetland Classification(s): PFO, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus laciniatus*	*Athyrium filix–femina*
Thuja plicata		*Rubus ursinus*	*Carex obnupta*
			Lysichitum americanum
			Oenanthe sarmentosa
			Ranunculus repens
			Tolmeia menziesii

Comments

East end of this section is an area of denied access: cow pasture on the south bank of Tickle Creek. A small drainage flows into Tickle Creek. Saturated conditions and vegetation dominated by Thuja plicata and Ranunculus repens. North side of creek: four 24" diameter concrete pipes convey drainage toward Tickle Creek through a small storm water pond, 10' wide, 5" deep. Tickle Creek west of this area 12–15' wide with wetland located in a flood plain bench which is up to 30' wide, with steep slopes to the south. Two foot bridges located east of 362nd Ave. in zoned parkway area. Next to western footbridge, a small culvert under Dubarko Rd. conveys drainage into Tickle Creek. Dominated by large Thuja plicata. Adjacent upland vegetation: Sambucus racemosa, Corylus cornuta, Rubus ursinus, Polystichum munitum, Pseudotsuga menziesii, Acer macrophyllum, Tsuga heterophylla.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Verification:	11/29/95	**Wetland Mapping Code:**	TC–14a
Investigator(s):	DC, PF	**Size (acres):**	3.61
Data Sheet Numbers:	53, 54, 55, 56		

Location

Legal: T2S R4E Sec. 14 **Tax Lot(s):** 1490, 1500, 1400

Other: W. end Sunset St. to S. of Ruben Ln., E. of Double Creek Estates new development

Hydrologic Basin: Tickle Creek

Soils

Mapped Series: *Wapato silty clay loam (hydric); Cazadero silty clay loam, 0–7% slopes; Dystrochrepts, very steep*

Hydrology

Hydrologic Source: Stream, hillside seeps, ground water, surface water, pond

Wetland Classification(s): PSS, PEM, PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus discolor*	*Juncus effusus*
Thuja plicata	*Salix lasiandra*	*Rubus laciniatus*	*Phalaris arundinacea*
	Salix scouleriana		*Ranunculus repens*
			Scirpus microcarpus
			Veronica americana

Comments

No–name tributary N. of Tickle Creek. Narrow channel from culvert to halfway along industrial site. Industrial with residential zoning to the south. Very flat, low–lying floodplain area with a variety of wetland types (forested, scrub/shrub, emergent). Hillside seep area in northern area of large alders and cedars north of the creek. Highly developed industrial N. and E. of wetland. Seep and a portion of the creek drains into an old mill pond with emergent vegetation. Evidence of beaver. Standing and flowing water. Noise from industrial site to E. Adjacent upland vegetation: Alnus rubra, Rubus discolor.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Verification: 11/29/95	**Wetland Mapping Code:** TC–14b
Investigator(s): DC, PF	**Size (acres):** 7.54
Data Sheet Numbers: 49, 50, 51, 52	

Location

Legal: T2S R4E Sec. 14	**Tax Lot(s):** 1400,1700
Other: Dubarko Dr., SW of Ruben Ln. Double Creek Estates project	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Wapato silty clay loam (hydric)*

Hydrology

Hydrologic Source: Stream, surface water, ground water

Wetland Classification(s): PEM, PSS, PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Alnus rubra*		*Carex obnupta*
Thuja plicata	*Rubus spectabilis*		*Juncus effusus*
Tsuga heterophylla	*Salix lasiandra*		*Ranunculus repens*
	Salix scouleriana		*Scirpus microcarpus*
	Sambucus racemosa		

Comments

Very disturbed site. New residential development N. of no–name tributary. Logged area S. of no–name tributary and N. of Tickle Creek. No–name tributary is highly disturbed by equipment and flowing south of the channel in braided channels. Standing water in compacted depressions. S. of Tickle Creek and Tickle Creek is undisturbed forested wetland and upland areas. W. end of open area between the streams is 70–90% wetland mosaic. Evidence of beaver. Established residential areas at W. and SE ends of site. Adjacent vegetation: Pseudotsuga menziesii, Alnus rubra, Rubus discolor.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Verification: 12/5/95	**Wetland Mapping Code:** TC–15
Investigator(s): JF, DC	**Size (acres):** 0.52
Data Sheet Numbers: 57, 58, 59, 60	

Location

Legal: T2S R4E Sec. 14	**Tax Lot(s):** 1700, C100, C601, C600
Other: Tickle Creek, W. of Sandy Heights	DB800, 2100
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Wapato silty clay loam (hydric); Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, ground water, surface water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus discolor*	*Lysichitum americanum*
Thuja plicata			*Ranunculus repens*
			Veronica americana

Comments

Forested wetland limited to Tickle Creek stream and narrow fringe, immediately west and south of residential development. Larger seep area on south side in central stream area, west of small play park. Creek and wetland bench mostly 15–30' wide, widens to 50' wide west of park. Creek passes through 4' diameter culvert at road crossing. Adjacent upland vegetation: Pseudotsuga menziesii, Agrostis tenuis, Vaccinium parvifolium, Tsuga heterophylla, Acer circinatum.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification:	12/5/95	**Wetland Mapping Code:**	TC–16
Investigator(s):	JF, DC	**Size (acres):**	3.78
Data Sheet Numbers:	N/A		

Location

Legal:	T2S R4E Sec. 14	**Tax Lot(s):**	2100
Other:	SE of the E. end of Dubarko Rd., middle section		DB800, 2100
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Perennial stream, seeps, ground and surface water

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*		*Athyrium filix–femina*
Thuja plicata	*Sambucus racemosa*		*Lysichitum americanum*

Comments

Delineation produced by Northwest Enviroscience. At the time of the inventory, a part of the NW portion of the delineated wetlands was impacted by a new residential development and a road crossing of Tickle Creek. South of Tickle Creek the wetland was only partially impacted by road construction. The wetland is located on flat flood plain benches along Tickle Creek, kept saturated by ground water.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 4/27, 10/18/94, 12/5/95	**Wetland Mapping Code:** TC–17
Investigator(s): DC, JF	**Size (acres):** 4.60
Data Sheet Numbers: 62, 63, 64, 65, 66, 67, 68, 69, 76, 77	

Location

Legal: T2S R4E Sec. 13, 14, 24	**Tax Lot(s):** CC1200, C1104, B3500,
Other: Tickle Creek, S. of Bluff Rd.	CC902, CC700, 2203,
	2205, 2300, 2600, 2900,
Hydrologic Basin: Tickle Creek	CC601

Soils

Mapped Series: *Cottrell silty clay loam; Dystrochrepts, very steep*

Hydrology

Hydrologic Source: Stream, ground water, surface water

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Cornus stolonifera*	*Rubus ursinus*	*Athyrium filix–femina*
Thuja plicata	*Physocarpus capitatus*		*Carex obnupta*
	Rubus spectabilis		*Lysichitum americanum*
	Sambucus racemosa		*Maianthemum dilatatum*
			Oenanthe sarmentosa
			Tolmiea menziesii
			Veronica americana

Comments

Tickle Creek, mapped as PFO1Y (as per NWI), flows in a narrow valley with moderately steep walls. Tops of the slopes – residential development–low density. Stream is fed by ground water seeps. Surrounding upland vegetation (dominant): Thuja plicata, Tsuga heterophylla, Acer circinatum, Polystichum munitum. Two isolated wetlands north of creek, not hydrologically connected to creek (TC–18, TC–19). Dubarko Rd. extension construction currently in progress on north side of creek, close to creek channel.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/18/94	**Wetland Mapping Code:** TC–18
Investigator(s): DC, DG	**Size (acres):** 0.03
Data Sheet Numbers: 70	

Location

Legal: T2S R4E Sec. 13	**Tax Lot(s):** CC902, CC1104
Other: N. of Tickle Creek, S. of S. end of Seaman Ave.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water, ground water

Wetland Classification(s): PFO, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra			*Athyrium filix–femina*
			Lysichitum americanum

Comments

Old stream channel with nearly vertical banks, filled with organic debris and very little vegetation. An isolated, narrow, deep (2 ft.) wetland. Another very small isolated wetland is located north of the west end of the old channel wetland. This wetland is a very shallow depression dominated by Lysichitum americanum and Athyrium filix–femina.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/18/94	**Wetland Mapping Code:** TC–19
Investigator(s): DC, DG	**Size (acres):** 0.15
Data Sheet Numbers: 71, 72, 73	

Location

Legal: T2S R4E Sec. 13	**Tax Lot(s):** CC700, CC601
Other: SW of Bend in Tupper Rd., N. side of Tickle Creek	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes; Dystrochrepts, very steep*

Hydrology

Hydrologic Source: Ground water, some surface water

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Thuja plicata	*Rubus spectabilis*		*Athyrium filix–femina*
			Carex obnupta

Comments

Shallow, forested wetland swale, isolated from Tickle Creek, north of the creek channel. This wetland is fed by ground water and is not hydrologically connected to Tickle Creek. Surrounding upland dominant vegetation: Acer macrophyllum, Alnus rubra, Rhamnus purshiana, Sambucus racemosa, Rubus parviflorus, Polystichum munitum, Rubus discolor.

Wetland Classification Codes:

PFO = palustrine forested
PSS = palustrine scrub–shrub
PEM = palustrine emergent
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/17, 10/18, 11/16/95	**Wetland Mapping Code:** TC–20
Investigator(s): JF, DC	**Size (acres):** 2.27
Data Sheet Numbers: 75, 78, 79, 80	

Location

Legal: T2S R4E Sec. 13, 24	**Tax Lot(s):** B3600, B3700, B3800
Other: Tickle Creek, west of Hwy. 211	B700, CC601, B3500, B3900
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes; Dystrochrepts, very steep*

Hydrology

Hydrologic Source: Stream, surface water, ground water

Wetland Classification(s): PFO, PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*		*Carex obnupta*
			Epilobium watsonii
			Juncus effusus
			Lysichitum americanum
			Oenanthe sarmentosa
			Ranunculus repens

Comments

Wetland includes Tickle Creek channel and narrow floodplain bench, fed by surface drainages, and seeps. Dubarko Rd. extension construction in progress north of creek. Low density wooded residential development south of creek. At eastern boundary, creek enters this area through 6' square concrete culvert under Hwy. 211. Creek mostly 10–15" wide, flowing 8" deep. Hwy. 211 has steep sided, raised road bed. Some dumping of garbage. Adjacent upland vegetation: Corylus cornuta, Polystichum munitum, Rubus ursinus, Athyrium filix–femina

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/16 – 11/17/95	**Wetland Mapping Code:** TC–21a
Investigator(s): JF, DC	**Size (acres):** 1.32
Data Sheet Numbers: 81, 82, 83, 86	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B1600, B1700, B1800
Other: S. central end of UGB, east of Bornstedt Rd.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes, Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Surface water, ground water, stream

Wetland Classification(s): PEM, PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus discolor*	*Agrostis tenuis*
	Salix sitchensis	*Rubus laciniatus*	*Carex densa*
			Epilobium watsonii
			Holcus lanatus
			Juncus effusus

Comments

Culverted stream flows north under an overgrown dirt road at southern UGB, east of Bornstedt Rd. Stream widens into large ponded area. Surrounding upland vegetation: Pseudotsuga menziesii, Acer macrophyllum, Corylus cornuta, Rubus parviflorus, Epilobium angustifolium, Pteridium aquilinum. At north end, wetland/upland mosaic through disturbed recently logged section of property. Flowing surface water 1–5" deep.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification:	11/16/95	**Wetland Mapping Code:**	TC–21b
Investigator(s):	JF, DC	**Size (acres):**	0.25
Data Sheet Numbers:	88, 89		

Location

Legal:	T2S R4E Sec. 24	**Tax Lot(s):**	B1400, B1500
Other:	E. of Bornstedt Road, SE of bend in Hwy. 211		
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, surface water

Wetland Classification(s): PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
			Ranunculus repens
			Scirpus microcarpus
			Stachys cooleyae
			Veronica americana

Comments

Water flows north into this wetland area thru a round metal culvert from a pond on the west side of Bornstedt Rd. (outside UGB), which is fed by stream from the south. The grassy swale is 20' wide, with a broad bench to the west of the stream. Stream itself is 2' wide, and up to 2" deep. Some Juncus effusus on banks. Pet donkey in yard grazes adjacent upland area. Large blackberry thicket east of swale.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/16/95	**Wetland Mapping Code:** TC–21c
Investigator(s): JF, DC	**Size (acres):** 0.16
Data Sheet Numbers: 90, 91	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B1100, B1200, B1300
Other: East of bend in Hwy. 211, W. of trailer park	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, ground water, surface water

Wetland Classification(s): PEM, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
			Epilobium watsonii
			Phalaris arundinacea
			Ranunculus repens
			Scirpus microcarpus

Comments

Narrow stream channel flows through Rubus discolor thicket at S. end of area, and north toward Tickle Creek through 24" round metal culvert. Channel is 2' wide, with water flowing 10" deep. Limited wildlife value due to proximity of highway surrounding residential development, and lack of trees/woody vegetation. Other wetland vegetation present: Juncus effusus, and Rorippa nasturtium–aquaticum.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 11/17/95	**Wetland Mapping Code:** TC–22
Investigator(s): JF, DC	**Size (acres):** 0.19
Data Sheet Numbers: 84, 85	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B1800
Other: Adjacent to E. side of Bornstedt Road, near S. UGB	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Surface water, ground water, seep

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Thuja plicata	*Rubus spectabilis*		
	Sambucus racemosa		

Comments

Forested wetland – cedar grove on east side of Bornstedt Rd., near S. UGB. Water is flowing 2' wide, 3–4" deep. Surrounding dominant upland vegetation: Pseudotsuga menziesii, Acer macrophyllum, Acer circinatum, Rubus ursinus, Polystichum munitum, Rubus discolor. Disturbed – trash dumped near road, encroachment of some non–native garden exotics close to road. Area currently low density residential, zoned as medium density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 11/17/95	**Wetland Mapping Code:** TC–23
Investigator(s): JF, DC, DK	**Size (acres):** 1.43
Data Sheet Numbers:	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B300, B400, B600, B800
Other: Tickle Creek, E. of Hwy. 211	B100, B900
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, seep, surface and ground water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus discolor*	*Polystichum munitum*

Comments

East of Hwy. 211, drainage channel flows from wide wetland area to the south up to 4' wide and 16" deep. Disturbance due to logging at southern end. Channel joins Tickle Creek and is culverted under Hwy. 211 toward the west. Tickle Creek in this area is wide, with fallen logs, rocks, and well–vegetated banks. A 6' diameter log crosses the creek in the central portion of this creek section. No data sheets for this wetland. Vegetation typical of Tickle Creek both up and downstream of this area.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/17/95	**Wetland Mapping Code:** TC–24
Investigator(s): JF, DC	**Size (acres):** 0.30
Data Sheet Numbers: 92, 93	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B400, B500
Other: N. side of Tickle Creek, E. of Hwy. 211, S. of S. end of Dahlager Street	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Hillside seep, ground water

Wetland Classification(s): PEM, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
		Rubus discolor	*Epilobium watsonii*
			Juncus patens
			Ranunculus repens
			Scirpus microcarpus

Comments

Possibly an old garden area at south end of residential property, with scattered exotic vegetation. House located at top of slope, at northern end of property. This shallow swale is located at the base of the slope, north of Tickle Creek. Located within 100–year flood plain. Not hydrologically connected to Tickle Creek. Zoned as high–density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/17, 10/18/95	**Wetland Mapping Code:** TC–25
Investigator(s): JF, DC, DK	**Size (acres):** 0.16
Data Sheet Numbers: 94, 95	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B300, B400
Other: North side of Tickle Creek, 500' east of Hwy. 211	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Ground water, seep

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Acer circinatum*		*Athyrium filix–femina*
Thuja plicata			*Lysichitum americanum*

Comments

Forested shallow swale, N. of Tickle Creek. Not hydrologically connected to Tickle Creek. Dirt trails located close by to the west where two sweat lodge tents have been placed on cleared ground. Area relatively free of urban noise, high wildlife habitat value due to variety of structure. Dominant adjacent upland vegetation: Tsuga heterophylla, Oemleria cerasiformis, Rhamnus purshiana, Rubus ursinus, Polystichum munitum, Vancouvera hexandra, Oxalis oregana. Zoned as high density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/17, 10/18/95	**Wetland Mapping Code:** TC–26
Investigator(s): JF, DC, DK	**Size (acres):** 0.22
Data Sheet Numbers: 96, 97, 98, 99	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B100, B300, A2900
Other: 800' East of Hwy. 211, S. side of creek, S. of S. end of Meinig Rd.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water, ground water, hillside seep

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Acer circinatum*		*Athyrium filix–femina*
Thuja plicata	*Rubus spectabilis*		*Lysichitum americanum*
			Oenanthe sarmentosa
			Tolmiea menziesii

Comments

Shallow, wide scrub–shrub swale with inundated soils extends south to base of slope. Dense understory growth with plenty of large downed woody debris. Access to creek to the west by dirt trails. Located on residential property, undeveloped in creek area. No traffic noises audible in this area, no visual detractors. High value due to structural diversity. Zones as medium density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/18, 10/19/95	**Wetland Mapping Code:** TC–27
Investigator(s): JF, DC, DK	**Size (acres):** 2.35
Data Sheet Numbers: 100, 102, 103, 104, 105, 106, 107, 108, 109	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** A2900, A400, A3000
Other: Tickle Creek, East of Meinig Rd., past 395th Ave., to UGB A300	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, surface water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Acer circinatum*	*Rubus discolor*	*Agrostis alba*
Thuja plicata	*Rubus spectabilis*		*Athyrium filix–femina*
			Lysichitum americanum
			Ranunculus repens

Comments

Tickle Creek between Meinig Rd. and S. UGB – wetland limited to narrow fringe along stream channel. Upstream, East of 395th Avenue, branched channels flow around islands. Ground water seeps from N. slopes feed the creek. Tickle Creek enters UGB from the SE, where stream channel varies from 20 to 40' wide. Area to the north is low density residential. Area to the south, adjacent to 395th Avenue is former pasture (?) now overgrown with Rubus discolor and Rubus ursinus. Zoned as medium density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/19/95	**Wetland Mapping Code:** TC–28
Investigator(s): JF, DK	**Size (acres):** 0.06
Data Sheet Numbers: 101	

Location

Legal: T2S R4E Sec. 24 **Tax Lot(s):** A3000

Other: Immediately east of 395th Ave., S. side of Tickle Creek

Hydrologic Basin: Tickle Creek

Soils

Mapped Series: *Cottrell silty clay loam*

Hydrology

Hydrologic Source: Stream, ground water, surface water

Wetland Classification(s): PEM, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Salix sitchensis		*Rubus ursinus*	*Scirpus microcarpus*
Populus trichocarpa		*Rubus laciniatus*	*Eleocharis palustris*

Comments

Partially drained pond, 10' east of 395th Avenue. Earthen 2.5' high berm separates this pond from creek channel to the north. Raised road bed forms western bank. 12" diameter concrete pipe drains into Tickle Creek, under berm. Water inundated 3–4" deep. Upland vegetation nearby: Alnus rubra, Rubus parvifloris, Symphoricarpos albus. Some wildlife value: great blue heron observed on site. Dirt trail located on top of berm, and continues as a dirt path which crosses Tickle Creek to the east.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/17/95	**Wetland Mapping Code:** TC–29
Investigator(s): JF, DC	**Size (acres):** 0.16
Data Sheet Numbers: 116, 117	

Location

Legal: T2S R4E Sec. 13	**Tax Lot(s):** DB1804, DB1802, DB1700
Other: S. of Park, S. of Hwy. 26, E. of Hwy 211	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, surface water

Wetland Classification(s): PEM

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
			Carex obnupta
			Poa annua
			Ranunculus repens

Comments

Stream flows west, south of play structure area in park. Stream is ~240' long, 5' wide with flowing water 3–6" deep. Streamflows into a 36" round metal culvert under parking lot and Hwy. 211 for ~320'. Wetland limited to narrow fringes of the channel which is mostly scoured and bare of vegetation with the exception of some Juncus effusus and Athyrium filix–femina on banks in addition to dominate vegetation listed above. Upstream of the play structure area, the channel bottom is cobbly. Entire stream channel is located within a public park with easy access. But limited aesthetic value and wildlife habitat. Traffic noise from roads to the west and the north. Surrounding upland vegetation: Pseudotsuga menziesii, Acer macrophyllum, Polystichum munitum.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 11/17/95	**Wetland Mapping Code:** TC–30
Investigator(s): JF, DC	**Size (acres):** 0.48
Data Sheet Numbers: 119, 120, 121, 122	

Location

Legal: T2S R4E Sec. 13	**Tax Lot(s):** DB1700, CA1040
Other: N. of Barker Court, E. of Meinig Ave.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Stream, ground water

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*		*Athyrium filix–femina*
	Thuja plicata		*Lysichitum americanum*
			Oxalis trillifolia
			Polystichum munitum

Comments

Approximately 500' long stream channel. Flow originates from 12" concrete culvert in wooded area north of residential property. Access to this area by dirt trail, disturbed by dumping of litter. Stream continues in a narrow forested drainageway to the west, under a 10' wide dirt road through a 24" round metal culvert. Drainage broadens near Meinig Rd. to a ponded Rubus spectabilis scrub–shrub area. On upland slopes of drainage, many nurse–stumps, with young saplings. Downed tree limbs and logs, mostly less than 18" diameter. Upland dominant vegetation: Thuja plicata, Acer macrophyllum, Polystichum munitum, Corylus cornuta. West of Hwy 211, no access – forested area where creek joins next stream to the north.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification:	11/17, 11/29/95	**Wetland Mapping Code:**	TC–31
Investigator(s):	JF, DC, PF	**Size (acres):**	0.45
Data Sheet Numbers:			

Location

Legal:	T2S R4E Sec. 13	**Tax Lot(s):**	CA8801, CA9006, CA9001,
Other:	Between Tupper Road and Hwy. 211		CA9004
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream

Wetland Classification(s): PFO, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra		*Rubus discolor*	
Thuja plicata			

Comments

Narrow unvegetated stream emerges from large round metal culvert under Hwy. 211 and flows west through forested residential area. Widens to 20' wide in a Rubus discolor dominated area near a small dam. Downstream westward channel narrows to 6–8' wide. Undeveloped new home sites are partially cleared of vegetation. Dirt road crossing where creek flows through another round metal culvert. Drainage ends at Tupper Road where water enters a culvert and is diverted underground. Access denied on eastern one–half of area: offsite mapping.

Wetland Classification Codes:

PFO = palustrine forested
PSS = palustrine scrub–shrub
PEM = palustrine emergent
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification:	11/29/95	**Wetland Mapping Code:**	TC–32
Investigator(s):	DC, PF	**Size (acres):**	0.18
Data Sheet Numbers:	123, 124		

Location

Legal:	T2S R4E Sec. 13	**Tax Lot(s):**	CB3101, CB1925, CB1924,
Other:	N. of Strawbridge Parkway, E. of Bluff Rd.		CB1923, CB1921, CB1914,
			CB1916, CB1912, CB1200
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Borges silty clay loam, 0–8% slopes*

Hydrology

Hydrologic Source: Perennial stream

Wetland Classification(s): PEM, PSS

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Alnus rubra		*Agrostis stolonifera*
	Salix lasiandra		*Juncus effusus*
			Phalaris arundinacea
			Scirpus microcarpus
			Typha latifolia
			Veronica americana

Comments

Perennial stream emerges out of a 48" culvert approx. 1000' long and flows in a steep–sided channel 12–15' wide. The channel is excavated and flows behind houses and some open lots and narrows to about 8–10' wide then to 6' wide. The water then enters a culvert and daylights 1600' to the west. Some willows along bank and emergent wetland plants in silt deposition areas. Zoned residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 12/6/95	**Wetland Mapping Code:** CC–1
Investigator(s): JF, DC	**Size (acres):** 0.30
Data Sheet Numbers: 125, 126	

Location

Legal: T2S R5E Sec. 18	**Tax Lot(s):** 2702
Other: Lower NE UGB corner, W. of Krebs Road	
Hydrologic Basin: Cedar Creek	

Soils

Mapped Series: *Klickitat stony loam, 30–60% slopes*

Hydrology

Hydrologic Source: Hillside seep, surface water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Thuja plicata			*Athyrium filix–femina*
			Lysichitum americanum
			Oenanthe sarmentosa

Comments

Hillside seep – headwaters of drainage to Fir Creek at northeastern corner of UGB. Forest has good structural diversity, wildlife habitat value. Surrounding upland vegetation: Acer macrophyllum, Tsuga heterphylla, Vaccinium parvifolium, Acer circinatum, Polystichum munitum, Oxalis oregana. Area is low density/rural residential, zoned as parkway open space.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 12/6/95	**Wetland Mapping Code:** CC–2
Investigator(s): JF, DC	**Size (acres):** 1.54
Data Sheet Numbers: 127, 128, 129, 130	

Location

Legal: T2S R5E Sec. 18	**Tax Lot(s):** 2701, 2702
Other: E. of excavated ponds, E. of Vista Loop Dr.	
Hydrologic Basin: Cedar Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 12–20% slopes; Klickitat stony loam, 30–60% slopes*

Hydrology

Hydrologic Source: Surface water, hillside seep, stream

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Acer circinatum*		*Athyrium filix–femina*
			Lysichitum americanum
			Oxalis trillifolia

Comments

Water is conveyed east from a constructed pond upslope of wetland area through a trough and pipes. Two previously delineated seep/side drainages join from the south, through an open forest. Western drainage does not follow topography. The eastern side drainage has wetland characteristics and is 10–15' wide, then narrows to a cobbly stream channel with flowing water 2' wide, 1/2" deep. This section has been recently logged. Upland vegetation: Acer macrophyllum, Tsuga heterophylla, Polystichum munitum.

Wetland Classification Codes:

PFO = palustrine forested
PSS = palustrine scrub–shrub
PEM = palustrine emergent
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 12/6/95	**Wetland Mapping Code:** CC–3
Investigator(s): JF, DC	**Size (acres):** 0.76
Data Sheet Numbers: 131, 132	

Location

Legal: T2S R5E Sec. 19	**Tax Lot(s):** 100, 200, 401
Other: Narrow drainageway N. of Janz Berryland, E. of Hwy. 26	
Hydrologic Basin: Cedar Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 12–20% slopes*

Hydrology

Hydrologic Source: Surface water, seep

Wetland Classification(s): PEM, PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra		*Rubus discolor*	*Juncus effusus*
			Ranunculus repens

Comments

Wetland area begins as a PEM hillside seep and changes to a 4–5' wide stream channel and 15' wide seep area as it flows down a steep slope. Tops of slopes are grassy while drainage is forested. Five deer observed on site, including two fawns and a buck. Surrounding upland vegetation: Rubus spectabilis, Acer macrophyllum, Berberis sp., Polystichum munitum, Ilex aquifolium, Agrostis tenuis, Festuca arundinacea.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 12/6/95	**Wetland Mapping Code:** CC–4
Investigator(s): JF, DC	**Size (acres):** 0.41
Data Sheet Numbers: 133, 134	

Location

Legal: T2S R5E Sec. 19	**Tax Lot(s):** 200, 100
Other: Far SE UGB corner, E. of Hwy. 26, S. of narrow drainageway	
Hydrologic Basin: Cedar Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 12–20% slopes*

Hydrology

Hydrologic Source: Surface water, ground water, seep

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*		*Athyrium filix–femina*
Thuja plicata			*Lysichitum americanum*

Comments

60' wide seep zone on a gradual slope, at base of steep hillside. Unmaintained dirt road on north side of wetland area. Lots of downed coarse woody debris. Ajacent upland vegetation: Acer macrophyllum, Thuja plicata, Rubus specabilis, Rubus laciniatus, Rubus discolor, Ilex aquifolium, Polystichum munitum, Oxalis oregana, Blechnum spicant.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 12/6/95	**Wetland Mapping Code:** CC–A
Investigator(s): JF, DC	**Size (acres):** 0.50
Data Sheet Numbers: N/A	

Location

Legal: T2S R5E Sec. 18	**Tax Lot(s):** 2701
Other: E. of Vista View Court	
Hydrologic Basin: Cedar Creek/Fir Creek	

Soils

Mapped Series: *Klickitat stony loam, 30–60% slopes; Cazadero silty clay loam, 12–20% slopes*

Hydrology

Hydrologic Source: Surface water, hillside seep

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs

Comments

Area is currently being developed as residential property. Three ponds have been excavated. Two are higher up on the slope and drain downslope east and north to the third pond. Soils not hydric, and no vegetation is present in or around ponds except for hydroseeding and some Pseudotsuga menziesii plantings along berm of upper south pond. Top of slope has been filled and graded. Rows of silt fencing placed along the slope from the west. Lower pond drains into wetland stream CC–2.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/10/95	**Wetland Mapping Code:** TC–A
Investigator(s): JF, DK	**Size (acres):** N/A
Data Sheet Numbers: 1	

Location

Legal: T2S R4E Sec. 2 **Tax Lot(s):** DD2901

Other: N. of Kelson Rd., near western UGB boundary

Hydrologic Basin: Tickle Creek

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
			Agrostis tenuis
			Elymus triticoides

Comments

30' wide grassy swale on N. side of residential property, cuts through overgrown pine tree nursery, oriented toward the west. Bright, upland soils. No evidence of hydrology: although according to homeowner the area is flooded after storm events. Soils appear well–drained. Other vegetation present in swale: Cirsium arvense, Dactylis glomerata, Plantago lanceolata.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/10/95	**Wetland Mapping Code:** TC–B
Investigator(s): JF, DK	**Size (acres):** N/A
Data Sheet Numbers: 2, 3	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** AB300, AB200, AB500
Other: S. of Kelso Rd., W. of Bluff Rd.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
		Rubus discolor	*Holcus lanatus*
			Ranunculus repens

Comments

Intermittent drainage swale oriented toward the west. Channel inundated on site visit, after period of heavy rain, 1 – 1.5' wide. Soils not hydric. Trees on slopes outside of swale: Pseudotsuga menziesii and Acer macrophyllum, open understory. Swale widens to 6' ~ 20' wide further west into logged property (access denied). Other herbaceous vegetation: Taraxacum officionale, Digitalis ischaemum, Galium aparine. Zoned medium density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/10/95	**Wetland Mapping Code:** TC–C
Investigator(s): JF, DK	**Size (acres):** N/A
Data Sheet Numbers: 4, 5	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** AC900, AC1600, AC1500
Other: N. of 377th Avenue and Olson Rd.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rosa sp.*	*Rubus ursinus*	*Carex deweyana*
	Rubus spectabilis		*Polystichum munitum*

Comments

Soils have no hydric indicators. Drainage is intermittently flooded. Drainage originates from roadside ditch on east side of 377th Avenue, and continues southwest through disturbed field area of Rubus ursinus, Symphoricarpos albus, Holcus mollis, and Epilobium watsonii to forested area then through shallow swale in a field (no access) and west into Thuja plicata and Acer macrophyllum forest.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/10/95	**Wetland Mapping Code:** TC–D
Investigator(s): JF, DK	**Size (acres):** N/A
Data Sheet Numbers: 7	

Location

Legal: T2S R4E Sec. 11	**Tax Lot(s):** AC800, AC900
Other: W. of 377th Avenue and Olson Road	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 7–12% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Rubus spectabilis		*Carex deweyana*
			Tolmeia menziesii

Comments

Intermittent drainage oriented west from created pond, ends at Olson Rd.; possible drain tile system to the south. Site visit during period of heavy rainfall. Flooded area ~20' wide dominated by Rubus spectabilis. Non–dominant vegetation present: Symphoricarpos albus, Athyrium filix–femina, Oenanthe sarmentosa. Adjacent areas dominated by Acer macrophyllum, Thuja plicata, Rubus ursinus, Polystichum munitum. Undisturbed forested wet swale with upland soils.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 10/12/95	**Wetland Mapping Code:** TC–E
Investigator(s): DC, DK	**Size (acres):** N/A
Data Sheet Numbers: N/A	

Location

Legal: T2S R4E Sec. 14	**Tax Lot(s):** 100
Other: W. of High School ball fields, W. of ponds	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs

Comments

This stream is part of an environmental learning center. This intermittent stream drains two man–made ponds to the east. The streambed is created and is partially lined with pond liner and rocks. Late in the summer the surface water soaks into the streambed a short distance west of the ponds and re–emerges at the western property boundary (TC–3). Where soils were sampled, no wetland soil indicators are present. The forest that the stream flows through is dominated by Pseudotsuga menziesii, Acer macrophyllum, Thuja plicata, Oemleria cerasiformis, Symphoricarpos albus, Tolmiea menziesii and Polystichum munitum.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 12/1/95	**Wetland Mapping Code:** TC–G
Investigator(s): JF, PF	**Size (acres):** N/A
Data Sheet Numbers: 18, 19	

Location

Legal: T2S R4E Sec. 11 **Tax Lot(s):** 3200, 3600, 3500

Other: Drainage swale originating N. of Thriftway on Hwy. 26

Hydrologic Basin: Tickle Creek

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Ground water, surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Populus balsamifera			*Phalaris arundinacea*

Comments

Disturbed undeveloped field, N. of Thriftway. Possibly partially filled field, slopes down to the north. Ground is saturated to the surface, but soils are not hydric. Two 16" diameter culverts drain water under a gravel road to a drainage west of site. This intermittent drainageway joins wetland about 1200' to the west. Adjacent upland areas are dominated by Rubus discolor, Cirsium arvense, Chrysanthemum leucanthemum and other weedy grasses and forbs.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/3/95	**Wetland Mapping Code:** TC–H
Investigator(s): JF, DK	**Size (acres):** N/A
Data Sheet Numbers: 28, 29	

Location

Legal: T2S R4E Sec. 10	**Tax Lot(s):** 3900
Other: S. of Hwy 26, W. of intersection with Orient Rd.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cazadero silty clay loam, 0–7% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Corylus cornuta	*Rubus discolor*	*Agrostis tenuis*
	Rhamnus purshiana	*Rubus laciniatus*	*Holcus lanatus*
			Polystichum munitum
			Pteridium aquilinum

Comments

Grassy swale with intermittent hydrology drains water west through a Rubus discolor dominated thicket, and backs up near the northern UGB boundary. This temporarily ponded area does not reveal hydric soil conditions. Approximately 8' wide, banks 4–5' high. Vegetation not hydrophytic, no water during site visit. Surrounded by agricultural land (pasture). Site to the N., across the road recently developed. Zoned industrial.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/17/95	**Wetland Mapping Code:** TC–I
Investigator(s): JF, DC	**Size (acres):** N/A
Data Sheet Numbers: 87	

Location

Legal: T2S R4E Sec. 24	**Tax Lot(s):** B1600, B1700
Other: E. of Bornstedt Rd., S. of bend in Hwy. 211	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*	*Rubus discolor*	*Athyrium filix–femina*
			Polystichum munitum

Comments

Intermittent stream, 4' wide, with flowing water 16" deep at time of site visit. Flows through culvert, west under Bornstedt Rd. Part of the southern area has been recently logged. Other vegetation: Acer macrophyllum, Symphoricarpos albus, Corylus cornuta, Rubus discolor, Rubus ursinus, Gaultheria shallon, Urtica dioica. Zoned medium density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY

– Wetland Summary Sheet –

Date(s) of Field Verification: 10/18, 12/5/95	**Wetland Mapping Code:** TC–J
Investigator(s): JF, DC, DK	**Size (acres):** N/A
Data Sheet Numbers: 110	

Location

Legal: T2S R4E Sec. 13, 18, 24	**Tax Lot(s):** A300, CC700, CC604,
Other: Langensand Rd. at S. end of UGB	DD1200
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Stream, surface water, ground water

Wetland Classification(s): PFO

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Alnus rubra	*Rubus spectabilis*		*Tolmeia menziesii*
Thuja plicata	*Sambucus racemosa*		*Athyrium filix–femina*
			Blechnum spicant
			Carex obnupta
			Oenanthe sarmentosa

Comments

Forested riparian area without any associated wetland, other than small islands in stream. Channel bed is silt cobble, with downed coarse woody debris. Stream originates east of Langensand Rd. and flows through an excavated drainage ditch on northern boundary of residential property. Soils in this area are not hydric, and vegetation is upland herbaceous. Drainage is culverted under Langensand Rd. and enters wooded area south of residential property. Zoned as high and medium density residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 12/1/95	**Wetland Mapping Code:** TC–K
Investigator(s): JF, PF	**Size (acres):** N/A
Data Sheet Numbers: 111	

Location

Legal: T2S R5E Sec. 19	**Tax Lot(s):** 1400, 1500
Other: E. of Langensand Rd., SE of UGB	1401

Hydrologic Basin: Tickle Creek

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water, ground water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
	Symphoricarpos albus		*Agrostis tenuis*
			Festuca arundinacea

Comments

Seasonal grassy drainage swale in open pasture. Inundated 1", and flowing west, culverted under paved drive, and again west under Langensand Rd., outside UGB. No hydric soils.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification:	12/1/95	**Wetland Mapping Code:**	TC–L
Investigator(s):	JF, PF	**Size (acres):**	N/A
Data Sheet Numbers:	113, 114, 115		

Location

Legal:	T2S R5E Sec. 18	**Tax Lot(s):**	CC201, CC604, CD900,
Other:	Southwest of Hwy. 26, E. of Langensand Rd.		CD1000, CD1100
Hydrologic Basin:	Tickle Creek		

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Acer macrophyllum	*Ilex aquifolium*	*Rubus discolor*	*Agrostis stolonifera*
Pseudotsuga menziesii	*Sambucus racemosa*	*Rubus laciniatus*	*Agrostis tenuis*
	Symphoricarpos albus		*Digitaria ischaemum*
			Festuca arundinacea
			Holcus mollis
			Phalaris arundinacea
			Poa sp.
			Polystichum munitum
			Senecio jacobea

Comments

Seasonal drainage originates in horse pasture west of Hwy. 26, and is oriented toward the northwest. Flows in a narrow 2' wide 12" deep channel across tree nursery and through two 24" diameter culverts in a channelized ditch to open area south of a gravel yard, where water is 7' wide, 8–12" deep. Flows through 12' long, 30" round culvert before it is diverted underground into a rock–lined stormwater outfall at the SE corner of channel at west and is 4–5' wide and bare of vegetation. Some surface runoff from the gravel yard is conveyed into drainage.

Zoned residential.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 12/6/95	**Wetland Mapping Code:** TC–M
Investigator(s): JF, DC	**Size (acres):** N/A
Data Sheet Numbers: 112	

Location

Legal: T2S R5E Sec. 18	**Tax Lot(s):** CD1800, CD1401, CD1400
Other: N. of Hwy. 26, S. of Vista Loop Dr.	
Hydrologic Basin: Tickle Creek.	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Ground water, seep, surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Acer macrophyllum	*Oemleria cerasiformis*	*Rubus discolor*	*Polystichum munitum*
	Symphoricarpos albus	*Rubus ursinus*	

Comments

Intermittent drainage at base of steep slope formed by raised highway. Originates as a hillside seep on a residential/pasture (access denied) property and is oriented west along south edge of forested property. Inundated with 2" water from recent rains at time of site visit. Upland soils and vegetation community. Some litter dumped from highway.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification: 11/17/95	**Wetland Mapping Code:** TC–N
Investigator(s): JF, DC	**Size (acres):** N/A
Data Sheet Numbers: 118	

Location

Legal: T2S R4E Sec. 13	**Tax Lot(s):** DB1700
Other: S. of play park, E. of Meining Ave.	
Hydrologic Basin: Tickle Creek	

Soils

Mapped Series: *Cottrell silty clay loam, 2–8% slopes*

Hydrology

Hydrologic Source: Surface water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs
Acer macrophyllum		*Hedera helix*	*Heracleum lanatum*
Thuja plicata		*Rubus ursinus*	*Polypodium vulgare*
			Polystichum munitum

Comments

Drainage emerges from culvert into stormwater detention pond, 30–40' diameter, with water 2' deep. Drainage oriented west in a narrow channel with a silty gravel and cobble bottom, bare of vegetation. Flows through two more culverts, 48" and 18" diameter under dirt paths, and again at west end under a paved parking area and Meining Avenue.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification:	12/5/95	**Wetland Mapping Code:**	SR–A
Investigator(s):	JF, DC	**Size (acres):**	N/A
Data Sheet Numbers:	N/A		

Location

Legal:	T2S R4E Sec. 13	**Tax Lot(s):**	BD400, BD300, BD100,
Other:	N. of Strauss Ave., W. of Middle School track		BD200
Hydrologic Basin:	Sandy River		

Soils

Mapped Series: *Dystrochrepts, very steep*

Hydrology

Hydrologic Source: Surface water, seep, ground water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs

Comments

Appears that a portion of the canyon was filled in the past for building of the track. A large concrete stormwater drain with a 2' diameter pipe is located a short distance downslope from the track. Flowing water is 3–4" deep, 3–4' wide with a growth of orange bacteria in channel. Small side drainage joins main drainage from a plastic pipe upslope from concrete structure. A storm drainage ditch also joins from residential property to the south (dry at time of site visit). The canyon is forested with Alnus rubra, Acer circinatum and upland herbaceous vegetation.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

SANDY LOCAL WETLANDS INVENTORY
– Wetland Summary Sheet –

Date(s) of Field Verification:	12/5/95	**Wetland Mapping Code:**	SR–B
Investigator(s):	JF, DC	**Size (acres):**	N/A
Data Sheet Numbers:	N/A		

Location

Legal:	T2S R4E Sec. 13	**Tax Lot(s):**	BA193
Other:	W. of Scenic Street, NE of middle school track		
Hydrologic Basin:	Sandy River		

Soils

Mapped Series: *Cazadero silty clay loam, 0–7% and 7–12% slopes*

Hydrology

Hydrologic Source: Surface water, ground water

Wetland Classification(s): N/A

Dominant Vegetation

Trees	Shrubs	Vines	Herbs

Comments

Roadside drainage ditch conveys water north along east side of road, and then west down steep slope north of middle school track. A small amount of water 1" deep x 1' wide was flowing in the ditch at the time of the site visit. Where vegetated, Rubus discolor, Festuca arundinacea, Juncus tenuis and upland weeds dominated. No hydric soils indicators were present in the ditch.

Wetland Classification Codes:

PFO = palustrine forested
PEM = palustrine emergent
PSS = palustrine scrub–shrub
POW = palustrine open water

Appendix C

OFWAM

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/10/95	**Investigator(s):**	JAF, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	North of Olson St., west of 377th Av.		
Wetland Code:	TC-1		
Wetland Type(s):	POW		
Approximate Area (acres):	0.11		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	A	Q-1	A
Q-2	A	Q-2	C	Q-2	A
Q-3	B	Q-3	C	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	A	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland does not provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has educational uses
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/12/95	Investigator(s):	DC, DK
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	NE of Kate Schnitzer Ave & Hwy 26, W of high school athletic fields		
Wetland Code:	TC–2		
Wetland Type(s):	PEM		
Approximate Area (acres):	0.20		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	B	Q–1	B	Q–1	B	Q–1	B	Q–1	C	Q–1	A
Q–2	B	Q–2	A	Q–2	A	Q–2	A	Q–2	A	Q–2	A
Q–3	C	Q–3	A	Q–3	B	Q–3	C	Q–3	C	Q–3	B
Q–4	C	Q–4	A	Q–4	C	Q–4	A	Q–4	C	Q–4	A
Q–5	A	Q–5	A	Q–5	C	Q–5	C	Q–5	B	Q–5	A
Q–6	A	Q–6	A	Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	C				
Q–8	A										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	A	Q–1	B
Q–2	B	Q–2	C	Q–2	A
Q–3	B	Q–3	A	Q–3	A
Q–4	A	Q–4	B	Q–4	A
Q–5	A	Q–5	B	Q–5	A
Q–6	A	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland has the potential to provide water–quality beneifts
Hydrologic Control	Wetland does not provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/12/95	Investigator(s):	DC, DK
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	NE of Kate Schnitzer Ave & Hwy 26, W of H.S. Environ. Learning Center		
Wetland Code:	TC-3		
Wetland Type(s):	PFO		
Approximate Area (acres):	1.09		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	A
Q-3	B	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/12/95, 11/10/95	**Investigator(s):**	JAF, SGD, DEC, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	South of west end of Olson Rd, south of tree nursery		
Wetland Code:	TC-4		
Wetland Type(s):	PEM, POW		
Approximate Area (acres):	1.95		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/12/95	Investigator(s):	JAF, SGD, DEC, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	West end of stream, southwest of end of Olson Rd, west of pond to UGB		
Wetland Code:	TC-5		
Wetland Type(s):	PFO		
Approximate Area (acres):	1.23		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/01/95	**Investigator(s):**	JAF, PAF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	North of Highway 26, northwest of powerlines, northwest UGB		
Wetland Code:	TC-6		
Wetland Type(s):	PSS, PEM		
Approximate Area (acres):	4.0		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	A	Q-2	C	Q-2	C
Q-3	B	Q-3	A	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has educational uses
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/01/95	**Investigator(s):**	JAF, PAF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	North of Highway 26, southwest of powerlines, northwest UGB		
Wetland Code:	TC-7		
Wetland Type(s):	POW, PEM		
Approximate Area (acres):	1.56		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	A	Q-2	C	Q-2	A
Q-3	B	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has educational uses
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/26/95	Investigator(s):	JAF, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	West of 362nd Dr, south of Pioneer Park.		
Wetland Code:	TC-8		
Wetland Type(s):	PSS, PEM		
Approximate Area (acres):	1.71		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	A	Q-1	A
Q-2	A	Q-2	C	Q-2	A
Q-3	B	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	A	Q-5	B	Q-5	B
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has educational uses
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/26/95	Investigator(s):	JAF, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	South end of Sobella Farms tree nursery, south of Highway 26, west UBG		
Wetland Code:	TC-9		
Wetland Type(s):	PEM, POW		
Approximate Area (acres):	0.86		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	A	Q-2	C	Q-2	A
Q-3	A	Q-3	A	Q-3	B
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has educational uses
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/26/95	Investigator(s):	JAF, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Created pond at southwest corner of Sobella Farms Nursery		
Wetland Code:	TC-10		
Wetland Type(s):	PEM, POW		
Approximate Area (acres):	2.15		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	C
Q-3	B	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/26/95	Investigator(s):	JAF, DOK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	West of pond and fill area of Sobella Farms tree nursery.		
Wetland Code:	TC-11		
Wetland Type(s):	PFO, PEM		
Approximate Area (acres):	0.18		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	A	Q-2	C	Q-2	B
Q-3	B	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland does not provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has educational uses
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/26/95, 11/3/95	**Investigator(s):**	JAF, DOK, PAF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Tickle Creek, north of Skogan Rd to Sobella Farms tree nursery		
Wetland Code:	TC-12		
Wetland Type(s):	PFO, PSS		
Approximate Area (acres):	4.29		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/25/95	**Investigator(s):**	DOK, PAF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Tickle Creek, E. of 362 Av to W. edge of new devlpmt, Double Cr Estates		
Wetland Code:	TC-13		
Wetland Type(s):	PFO, PEM		
Approximate Area (acres):	2.05		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	A	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	A	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has educational uses
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/29/95	Investigator(s):	DEC, PAF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	W. end of Sunset St, to S. of Ruben Ln, E. of Double Cr. Estates, new deve		
Wetland Code:	TC-14a		
Wetland Type(s):	PSS, PEM, PFO		
Approximate Area (acres):	3.61		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	A	Q-1	C
Q-2	B	Q-2	C	Q-2	C
Q-3	B	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	A	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is not pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/29/95	**Investigator(s):**	DEC, PAF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Dubarko Dr., SW of Ruben Ln, Double Creek Estates project		
Wetland Code:	TC-14b		
Wetland Type(s):	PSS, PEM, PFO		
Approximate Area (acres):	7.54		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	A	Q-2	C	Q-2	B
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has little enhancement potential
Education	Wetland has educational uses
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be potentially pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/5/95	Investigator(s):	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Tickle Creek, SW of resid. development at Dubarko Dr and Sandy Heights		
Wetland Code:	TC-15		
Wetland Type(s):	PFO		
Approximate Area (acres):	0.52		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	B	Q-1	A	Q-1	C
Q-2	A	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	A	Q-4	A	Q-4	A
Q-5	A	Q-5	A	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is sensitive to secondary effects
Enhancement Potential	Wetland has little enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/4/95	Investigator(s):	DEC, JAF
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	SE of E end of Dubarko Rd., middle section		
Wetland Code:	TC–16		
Wetland Type(s):	PFO, PSS		
Approximate Area (acres):	3.78		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	A	Q–1	A	Q–1	A	Q–1	A	Q–1	C	Q–1	A
Q–2	A	Q–2	B	Q–2	A	Q–2	A	Q–2	A	Q–2	B
Q–3	B	Q–3	B	Q–3	A	Q–3	B	Q–3	C	Q–3	A
Q–4	C	Q–4	A	Q–4	B	Q–4	B	Q–4	A	Q–4	A
Q–5	A	Q–5	A	Q–5	C	Q–5	A	Q–5	A	Q–5	A
Q–6	A	Q–6	A	Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	A				
Q–8	A										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	A	Q–1	A
Q–2	B	Q–2	C	Q–2	B
Q–3	A	Q–3	C	Q–3	A
Q–4	B	Q–4	A	Q–4	A
Q–5	A	Q–5	A	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water–quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	4/27/94, 10/18/94, 12/5/95	**Investigator(s):**	DEC, JAF
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	Tickle Creek – W of Tupper Rd. and S of Bluff Rd., E of TC–16		
Wetland Code:	TC–17		
Wetland Type(s):	PFO, PSS		
Approximate Area (acres):	4.6		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	A	Q–1	A	Q–1	A	Q–1	A	Q–1	C	Q–1	A
Q–2	A	Q–2	A	Q–2	A	Q–2	A	Q–2	A	Q–2	A
Q–3	B	Q–3	B	Q–3	A	Q–3	B	Q–3	C	Q–3	A
Q–4	A	Q–4	A	Q–4	B	Q–4	B	Q–4	A	Q–4	A
Q–5	A	Q–5	A	Q–5	C	Q–5	A	Q–5	A	Q–5	A
Q–6	A	Q–6	A	Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	A				
Q–8	A										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	A
Q–2	B	Q–2	C	Q–2	A
Q–3	A	Q–3	C	Q–3	A
Q–4	B	Q–4	A	Q–4	A
Q–5	C	Q–5	B	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water–quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/18/94	**Investigator(s):**	DEC, DG
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	N of Tickle Creek – W of Tupper Rd., S of Seaman Ave., N of TC–17		
Wetland Code:	TC–18		
Wetland Type(s):	PFO, PEM		
Approximate Area (acres):	0.05		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	C	Q–1		Q–1	C	Q–1	A	Q–1	C	Q–1	A
Q–2	A	Q–2		Q–2	A	Q–2	A	Q–2	A	Q–2	A
Q–3	C	Q–3		Q–3	B	Q–3	C	Q–3	C	Q–3	B
Q–4	C	Q–4		Q–4	C	Q–4	B	Q–4	A	Q–4	A
Q–5	A	Q–5		Q–5	C	Q–5	B	Q–5	A	Q–5	A
Q–6	B	Q–6		Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	A				
Q–8	A										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	A
Q–2	B	Q–2	C	Q–2	A
Q–3	B	Q–3	C	Q–3	A
Q–4	B	Q–4	B	Q–4	A
Q–5	C	Q–5	B	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water–quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/18/94	Investigator(s):	DEC, DG
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	N of Tickle Creek – SW of bend in Tupper Rd., N of E end of TC–17		
Wetland Code:	TC–19		
Wetland Type(s):	PFO, PSS		
Approximate Area (acres):	0.15		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	A	Q–1		Q–1	C	Q–1	A	Q–1	C	Q–1	A
Q–2	A	Q–2		Q–2	A	Q–2	A	Q–2	A	Q–2	B
Q–3	C	Q–3		Q–3	A	Q–3	C	Q–3	C	Q–3	B
Q–4	C	Q–4		Q–4	C	Q–4	B	Q–4	A	Q–4	A
Q–5	B	Q–5		Q–5	C	Q–5	A	Q–5	A	Q–5	A
Q–6	B	Q–6		Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	A				
Q–8	A										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	A
Q–2	B	Q–2	C	Q–2	A
Q–3	B	Q–3	C	Q–3	A
Q–4	B	Q–4	B	Q–4	A
Q–5	C	Q–5	B	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water–quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/17, 10/18/95, 11/16/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Tickle Cr., W of Hwy 211, south and east of Dubarko Rd extens. project		
Wetland Code:	TC-20		
Wetland Type(s):	PFO, PEM		
Approximate Area (acres):	2.27		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is sensitive to secondary effects
Enhancement Potential	Wetland has little enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/16/95, 11/17/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	South–central end of UGB, east of Bornstedt Rd.		
Wetland Code:	TC–21a		
Wetland Type(s):	PFO, PEM, PSS		
Approximate Area (acres):	1.32		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	A	Q–1	B	Q–1	C	Q–1	A
Q–2	A	Q–2	B	Q–2	A	Q–2	A	Q–2	A	Q–2	A
Q–3	C	Q–3	C	Q–3	A	Q–3	B	Q–3	A	Q–3	B
Q–4	A	Q–4	A	Q–4	B	Q–4	A	Q–4	A	Q–4	B
Q–5	A	Q–5	C	Q–5	A	Q–5	C	Q–5	B	Q–5	B
Q–6	A	Q–6	B	Q–6	A	Q–6	A			Q–6	B
Q–7	A					Q–7	A				
Q–8	B										
Q–9A											
Q–9B	B										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	A
Q–2	B	Q–2	C	Q–2	A
Q–3	A	Q–3	B	Q–3	B
Q–4	C	Q–4	A	Q–4	A
Q–5	C	Q–5	B	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland provides water–quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/16/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	East of Bornstedt Rd, Southeast of bend in Hwy 211		
Wetland Code:	TC-21b		
Wetland Type(s):	PEM		
Approximate Area (acres):	0.25		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	B
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/16/95	Investigator(s):	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	East of bend in Highway 211, west of trailer park		
Wetland Code:	TC-21c		
Wetland Type(s):	PEM, PSS		
Approximate Area (acres):	0.16		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	B	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/17/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Adjacent to east side of Bornstedt Rd., near southern UGB		
Wetland Code:	TC-22		
Wetland Type(s):	PFO		
Approximate Area (acres):	0.19		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	B
Q-2	B	Q-2	C	Q-2	B
Q-3	B	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be potentially pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/17/95	Investigator(s):	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Tickle Creek, east of Hwy 211, to eastern boundary of tax lot B100		
Wetland Code:	TC-23		
Wetland Type(s):	PFO		
Approximate Area (acres):	1.43		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	A	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland provides hydrologic control
Sensitivity to Impact	Wetland is sensitive to secondary effects
Enhancement Potential	Wetland has little enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/17/95	Investigator(s):	DEC, JAF
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	N of Tickle Creek – E of Hwy 211, S of S end of Dahlager Street.		
Wetland Code:	TC–24		
Wetland Type(s):	PEM, PSS		
Approximate Area (acres):	0.3		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	A	Q–1		Q–1	C	Q–1	A	Q–1	C	Q–1	A
Q–2	C	Q–2		Q–2	C	Q–2	C	Q–2	A	Q–2	B
Q–3	C	Q–3		Q–3	A	Q–3	C	Q–3	A	Q–3	B
Q–4	C	Q–4		Q–4	C	Q–4	B	Q–4	A	Q–4	A
Q–5	A	Q–5		Q–5	A	Q–5	C	Q–5	B	Q–5	A
Q–6	A	Q–6		Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	A				
Q–8	B										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	A
Q–2	B	Q–2	C	Q–2	B
Q–3	B	Q–3	C	Q–3	A
Q–4	B	Q–4	B	Q–4	A
Q–5	C	Q–5	B	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water–quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/17/95, 10/18/95	**Investigator(s):**	DEC, JAF, DOK
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	N of Tickle Creek – 500 ft. E of Hwy 211, E of TC–24.		
Wetland Code:	TC–25		
Wetland Type(s):	PFO		
Approximate Area (acres):	0.16		

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact		Enhancement Potential	
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
Q–1	B	Q–1		Q–1	C	Q–1	A	Q–1	C	Q–1	A
Q–2	A	Q–2		Q–2	A	Q–2	A	Q–2	A	Q–2	A
Q–3	C	Q–3		Q–3	A	Q–3	C	Q–3	C	Q–3	B
Q–4	C	Q–4		Q–4	C	Q–4	B	Q–4	A	Q–4	A
Q–5	B	Q–5		Q–5	C	Q–5	A	Q–5	A	Q–5	A
Q–6	B	Q–6		Q–6	A	Q–6	C			Q–6	B
Q–7	A					Q–7	A				
Q–8	A										
Q–9A											
Q–9B	A										

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q–1	A	Q–1	C	Q–1	B
Q–2	B	Q–2	C	Q–2	A
Q–3	B	Q–3	C	Q–3	A
Q–4	B	Q–4	B	Q–4	A
Q–5	C	Q–5	B	Q–5	A
Q–6	B	Q–6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water–quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/17/95, 10/18/95	**Investigator(s):**	DEC, JAF, DOK
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	S of Tickle Cr., 800 ft. E of Hwy 211, E of TC-25, S of S end of Meinig Rd.		
Wetland Code:	TC-26		
Wetland Type(s):	PFO, PSS		
Approximate Area (acres):	0.22		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	B	Q-3	C	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/18/95, 10/19/95	**Investigator(s):**	JF, DC, DK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Tickle Creek, east of Meining Rd, past 395th Ave, to southern UGB		
Wetland Code:	TC-27		
Wetland Type(s):	PFO		
Approximate Area (acres):	2.35		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	A	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	A	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	10/19/95	Investigator(s):	JF, DK
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Immediately east of 395th Ave, south of Tickle Creek		
Wetland Code:	TC-28		
Wetland Type(s):	PEM, PSS		
Approximate Area (acres):	0.06		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	A	Q-3	B
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	C
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be potentially pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/17/95	**Investigator(s):**	DEC, JAF
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	NE end of City Park, S of Hwy 26, E of Hwy 211		
Wetland Code:	TC-29		
Wetland Type(s):	PEM		
Approximate Area (acres):	0.16		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	B	Q-1	A	Q-1	B
Q-2	B	Q-2	C	Q-2	C
Q-3	B	Q-3	A	Q-3	B
Q-4	A	Q-4	B	Q-4	A
Q-5	A	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be potentially pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/17/95	Investigator(s):	JAF, DEC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	South end of City Park, south of Hwy 26, east of Hwy 211		
Wetland Code:	TC-30		
Wetland Type(s):	PFO, PSS		
Approximate Area (acres):	0.48		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	B	Q-1	A	Q-1	A
Q-2	A	Q-2	C	Q-2	A
Q-3	B	Q-3	A	Q-3	B
Q-4	A	Q-4	B	Q-4	A
Q-5	A	Q-5	B	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland provides water-quality benefits
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/17/95, 11/29/95	**Investigator(s):**	JF, DC, PF
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	West of play park, between Hwy 211 and Tupper Road		
Wetland Code:	TC-31		
Wetland Type(s):	PFO, PEM, PSS		
Approximate Area (acres):	0.45		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	B	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	A
Q-5	B	Q-5	B	Q-5	B
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has potential for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	11/29/95	**Investigator(s):**	PAF, DEC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	North of Strawbridge Pkwy, east of Bluff Road		
Wetland Code:	TC-32		
Wetland Type(s):	PEM, PSS		
Approximate Area (acres):	0.18		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	A
Q-2	B	Q-2	C	Q-2	B
Q-3	B	Q-3	B	Q-3	B
Q-4	B	Q-4	B	Q-4	B
Q-5	B	Q-5	B	Q-5	A
Q-6	A	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has little enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/6/95	Investigator(s):	DEC, JAF
Project Name:	Sandy Local Wetland Inventory		
Wetland Location:	Lower UGB corner, west of Krebs Road		
Wetland Code:	CC-1		
Wetland Type(s):	PFO		
Approximate Area (acres):	0.30		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	A
Q-3	B	Q-3	C	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland does not provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/6/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	East of Vista Loop Drive, downslope and east of excavated ponds (CC-A)		
Wetland Code:	CC-2		
Wetland Type(s):	PFO		
Approximate Area (acres):	1.54		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Date:	12/6/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	East of south end of Vista Loop Drive, north of Janz Berryland		
Wetland Code:	CC-3		
Wetland Type(s):	PFO, PEM		
Approximate Area (acres):	0.76		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A
Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	A
Q-4	B	Q-4	A	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides diverse habitat for wildlife
Fish Habitat	Wetland potentially contributes to fish habitat
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland has some potential for enhancement
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

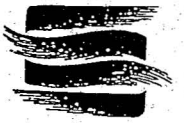
Date:	12/6/95	**Investigator(s):**	JF, DC
Project Name:	Sandy Local Wetlands Inventory		
Wetland Location:	Far SE UGB corner, east of Hwy 26, south of narrow drainageway (CC-3)		
Wetland Code:	CC-4		
Wetland Type(s):	PFO		
Approximate Area (acres):	0.41		

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

Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	B
Q-2	A	Q-2	C	Q-2	A
Q-3	B	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	A
Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B		

RESULTS:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	N/A
Water Quality	Wetland has the potential to provide water-quality beneifts
Hydrologic Control	Wetland has the potential to provide hydrologic control
Sensitivity to Impact	Wetland is potentially sensitive to secondary effects
Enhancement Potential	Wetland can be enhanced
Education	Wetland has educational uses
Recreation	Wetland is not appropriate for or does not provide recreational opportuniti
Aesthetic Quality	Wetland is considered to be pleasing



Appendix D

OFWAM Summary Sheets

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–1

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Hydrologic connection, open space, wide undeveloped forested buffer
Fish Habitat	Potentially contributes to fish habitat	Small excavated pond, depth uniform, no cover objects, no fish present
Water Quality	Potential to provide	Stream connection, open space, ponding
Hydrologic Control	Does not provide	Small size, lack of woody vegetation, Open space upstream
Sensitivity to Impact	Potentially sensitive to secondary effects	Land use, domanant Cowardin class: open water
Enhancement Potential	Some potential for enhancement	Potential for other functions, large area of open space, soils disturbed by excavation
Education	Has educational uses	No public access, access from road within 250 feet, no hazards
Recreation	Potential to provide	Access, but no trails, no fishing, hunting, or boating
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space, low noise levels

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–2

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Perennial pond surrounded by wide forest buffer, good variety of vegetation in wetland
Fish Habitat	Contributes	Perennial pond with shading vegetation, stocked with salmonids
Water Quality	Has potential to provide benefits	Ponds water, vegetative cover, open space
Hydrologic Control	Does not provide	Not in 100 year floodplain, too small, not forested
Sensitivity to Impact	Potentially sensitive to secondary effects	Open space, emergent vegetation
Enhancement Potential	Can be enhanced	Pond banks regraded, more diverse plantings, surrounded by open space
Education	Has potential for educational uses	Already an environmental learning center with trails
Recreation	Provides opportunities	Public access, trails no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to forested area

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–3

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Perennial stream surrounded by wide forest buffer, good variety of vegetation in wetland
Fish Habitat	Contributes	Perennial stream with shading vegetation, debris in stream, known to potentially contain salmonids
Water Quality	Provides benefits	Moderate size, floods, dense shrub and forested vegetation, open space
Hydrologic Control	Potential to provide	Moderate size, floods, dense shrub and forested vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoning for future residential development
Enhancement Potential	Can be enhanced	Diversify habitat, nice already surrounded by open space
Education	Not appropriate for educational uses	Woody vegetation too dense, no public access
Recreation	Is not appropriate or does not provide opportunities	No public access, no trails no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-4

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Hydrologic connection to stream, open space, open water
Fish Habitat	Potentially contributes	Uniform depth, and little cover, but well-vegetated to water's edge
Water Quality	Potential to provide	Stream connection, open space, ponding
Hydrologic Control	Potential to provide	Open space, ponding, lack of woody vegetation
Sensitivity to Impact	Potentially sensitive to secondary effects	Land use
Enhancement Potential	Some potential	Potential for other functions
Education	Potential for educational uses	No barriers, but access by permission only, diverse wildlife habitat
Recreation	Is not appropriate or does not provide opportunities	No access, nor boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space, low noise levels

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–5

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Hydrologic connection to stream, forested, open space,
Fish Habitat	Contributes	Shaded, woody debris, natural channel
Water Quality	Potential to provide	Stream connection, flooding
Hydrologic Control	Potential to provide	Open space, ponding, land use
Sensitivity to Impact	Potentially sensitive to secondary effects	Land use, PFO
Enhancement Potential	Some potential	Potential for other functions, surrounded by open space, soils compacted by livestock
Education	Potential for educational uses	No public access, but no barriers
Recreation	Is not appropriate or does not provide opportunities	No access, no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space, low noise levels

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-6

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Hydrologic connection to stream, variety of vegetation classes, open space
Fish Habitat	Potentially contributes	Shaded, woody debris, natural channel
Water Quality	Provides benefits	Stream connection, flooding, ponding, vegetation cover
Hydrologic Control	Potential to provide	Ponding, land use, PSS
Sensitivity to Impact	Potentially sensitive to secondary effects	Land use, PSS
Enhancement Potential	Can be enhanced	Potential for other functions, hydrology from perennial stream, surrounded by undeveloped land
Education	Has educational uses	No hazards or barriers
Recreation	Is not appropriate or does not provide opportunities	No access, no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space, low noise levels

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–7

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Hydrologic connection to stream, open space
Fish Habitat	Potentially contributes	Ponds connected by stream, vegetated pond edge, undeveloped land
Water Quality	Potential to provide	Stream connection, flooding, ponding
Hydrologic Control	Potential to provide	Ponding, land use
Sensitivity to Impact	Potentially sensitive to secondary effects	Land use
Enhancement Potential	Can be enhanced	Potential for other functions, hydrology from perennial stream, surrounded by undeveloped land
Education	Has educational uses	No hazards or barriers
Recreation	Is not appropriate or does not provide opportunities	No access, no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space, low noise levels

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-8

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Hydrologic connection to stream, open space, good vegetative cover
Fish Habitat	Potentially contributes	Ponds connected by stream, adjacent agricultural and scrub/shrub land
Water Quality	Provides benefits	Perennial stream, flooding, vegetative cover
Hydrologic Control	Potential to provide	Ponding, land use
Sensitivity to Impact	Potentially sensitive to secondary effects	Land use, PSS
Enhancement Potential	Can be enhanced	Potential for other functions, hydrology from perennial stream, surrounded by undeveloped land
Education	Has educational uses	No hazards or barriers, access
Recreation	Potential to provide	Access, wildlife habitat, possible viewing areas
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-9

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Stream, mostly forested banks, limited buffer on north side, more on south
Fish Habitat	Potentially contributes	Stream channel modified, shaded
Water Quality	Potential to provide benefits	Perennial stream, vegetative cover, open space
Hydrologic Control	Potential to provide	Downstream open space and forest, upstream zoned industrial
Sensitivity to Impact	Potentially sensitive to secondary effects	Open space, but zoned industrial upstream, modified stream channel
Enhancement Potential	Some potential for enhancement	Potential for other functions, surrounded by open space/tree nursery
Education	Has educational uses	No public access, steep banks, but no barriers
Recreation	Is not appropriate or does not provide opportunities	No public access, no trails, no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to forested area, powerline crossing, landscaped by people

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-10

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Includes pond, good buffer, though disturbed area
Fish Habitat	Potentially contributes	Not shaded, open space, but adjacent stream channel has been modified
Water Quality	Potential to provide benefits	Perennial stream, vegetative cover, open space
Hydrologic Control	Potential to provide	Downstream open space and forest, upstream zoned industrial
Sensitivity to Impact	Potentially sensitive to secondary effects	Open space, but zoned industrial upstream, modified adjacent stream channel
Enhancement Potential	Some potential for enhancement	Potential for other functions, surrounded by open space/tree nursery
Education	Has potential for educational uses	No public access, no barriers, steep banks
Recreation	Is not appropriate or does not provide opportunities	No public access, no trails, no boating, fishing, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to forested area, powerline crossing, landscaped by people

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–11

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Recently cleared forested land, with no undisturbed buffer, small size, surrounded by undeveloped land
Fish Habitat	Potentially contributes	Hydrologic connection to stream, adjacent land is undeveloped or forested
Water Quality	Potential to provide benefits	Fed by surface water, connected to stream, vegetative cover, small size
Hydrologic Control	Does not provide	No evidence of flooding, small size, upstream zoning: open space along stream, surrounded by residential
Sensitivity to Impact	Potentially sensitive to secondary effects	Disturbed land, zoned as open space PFO, recently cleared
Enhancement Potential	Can be enhanced	Some wildlife habitat, hydrologic connection to stream, surrounded by open space
Education	Has educational uses	No hazards, but no public acess, some wildlife habitat
Recreation	Not appropriate for or does not provide opportunities	No public access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	Open space along stream corridor, no odors, quiet, visual detractors: debris from logging activies

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-12

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	PSS/PFO, evidence of beaver, stream connection, wide forested buffer, open space
Fish Habitat	Contributes	Shaded, natural stream channel, existing land use: open space along stream corridor, salmonids present
Water Quality	Provides benefits	Perennial stream, within 100-year floodplain, vegetative cover
Hydrologic Control	Potential to provide	Flooding, upstream zoning: open space along stream surrounded by residential
Sensitivity to Impact	Potentially sensitive to secondary effects	Water quality, zoned as open space, PFO/PSS,
Enhancement Potential	Some potential for enhancement	Diverse habitat for wildlife, perennial stream, surrounded by open space
Education	Potential for educational use	No public acess, hazardous road (362nd Ave), diverse wildlife habitat
Recreation	Not appropriate for or does not provide opportunities	No public access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	Open space along stream corridor, no odors, No visual detractors, but disturbed by clearing of vegetation under powerlines at western end

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–13

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	PFO, stream connection, forested buffer, open space bordered by residential
Fish Habitat	Contributes	Shaded, natural stream channel, existing land use: open space along stream corridor, salmonids present
Water Quality	Potential to provide benefits	Perennial stream, within 100–year floodplain, vegetative cover
Hydrologic Control	Potential to provide	Flooding, upstream zoning: open space along stream surrounded by residential
Sensitivity to Impact	Potentially sensitive to secondary effects	Water quality, zoned as open space, PFO
Enhancement Potential	Some potential for enhancement	Diverse habitat for wildlife, perennial stream, surrounded by open space
Education	Has educational uses	No public acess, hazardous road (362nd Ave), diverse wildlife habitat, trails, no ADA barriers
Recreation	Potential to provide recreational opportunities	No public access, no boating, no hunting, fishing only from road
Aesthetic Quality	Considered to be pleasing	Open space along stream corridor, no odors, natural landscape, no visual detractors

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–14a

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Variety of vegetation classes, stream, open space, vegetation class interspersion
Fish Habitat	Contributes	Shaded, structural diversity, open space
Water Quality	Provides benefits	Stream, ponding, well–vegetated, open space
Hydrologic Control	Potential to provide	Ponding, PSS/PFO
Sensitivity to Impact	Sensitive to secondary effects	Land use, PFO/PSS
Enhancement Potential	Some potential	Potential for other functions
Education	Potential for use	No public access, diverse wildlife habitat
Recreation	Potential to provide	Access from road, no boating, hunting, or fishing
Aesthetic Quality	Not pleasing	Adjacent industrial site, disturbed ground, manipulated hydrology, development in progress

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–14b

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Variety of vegetation classes, hydrologic connection, open space, wide vegetative buffer
Fish Habitat	Contributes	Shaded, woody debris, rocky stream channel, open space.
Water Quality	Provides benefits	Floodwater storage, vegetative cover, open space
Hydrologic Control	Potential to provide	Ponding, large area, restricted outlet, forested
Sensitivity to Impact	Potentially sensitive	Open space, zoned industrial, woody vegetation communities
Enhancement Potential	Little potential	Provides diverse wildlife habitat, connected to stream, other functions
Education	Has educational uses	No hazards, diverse habitat
Recreation	Not appropriate for , or does not provide opportunities	No access, no boating, fishing, or hunting
Aesthetic Quality	Potentially pleasing	Minimal visual detractors, but surrounding area combination of open space and development in progress

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–15

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Wide buffer to the southwest, stream, forested
Fish Habitat	Contributes	Shaded, woody debris, natural stream channel, open space.
Water Quality	Provides benefits	Floodwater storage, vegetative cover, open space
Hydrologic Control	Potential to provide	Ponding, forested, stream
Sensitivity to Impact	Sensitive to secondary effects	Narrow band of open space, surrounded by zoned residential, PFO
Enhancement Potential	Little potential	Provides diverse wildlife habitat, connected to stream, other functions
Education	Potential for educational uses	No hazards, diverse habitat, access from play park
Recreation	Provides recreational opportunities	Access, diverse habitat, no boating or hunting, fishing only from road
Aesthetic Quality	Considered to be pleasing	No visual detractors, open space to the south, no odors, quiet, relatively undisturbed

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–16

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Perennial stream surrounded by wide forest buffer, good variety of vegetation in wetland
Fish Habitat	Contributes	Perennial stream with shading vegetation, debris in stream, known to potentially contain salmonids
Water Quality	Provides benefits	Moderate size, floods, dense shrub and forested vegetation, open space
Hydrologic Control	Potential to provide	Moderate size, floods, dense shrub and forested vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoning for future residential development
Enhancement Potential	Some potential for enhancement	Diversify habitat, nice already surrounded by open space
Education	Has potential for educational uses	New access being created
Recreation	Provides opportunities	Nearby public access, fishing stream, no boating, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–17

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Perennial stream surrounded by wide forest buffer, good variety of vegetation in wetland
Fish Habitat	Contributes	Perennial stream with shading vegetation, debris in stream, known to potentially contain salmonids
Water Quality	Provides benefits	Moderate size, floods, dense shrub and forested vegetation, open space
Hydrologic Control	Potential to provide	Moderate size, floods, dense shrub and forested vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoning for future residential development
Enhancement Potential	Can be enhanced	Diversify habitat, nice already surrounded by open space
Education	Has potential for educational uses	New access being created
Recreation	Does not provide opportunities	No public access, no fishing, no boating, no hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–18

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Small ponded area surrounded by a wide forest buffer,
Fish Habitat	N/A	No potential to contain fish, not connected to a stream or pond
Water Quality	Potential to provide benefits	Ponds a small amount of water, surrounded by forest vegetation, open space
Hydrologic Control	Potential to provide	Ponds a small amount of water, surrounded by forest vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoning for future residential development
Enhancement Potential	Can be enhanced	Diversify habitat, vegetation, surrounded by open space
Education	Has potential for educational uses	New access being created, provides habitat for some species
Recreation	Is not appropriate for or does not provide opportunities	No public access, no fishing, no trails, no boating, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area, stream nearby

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–19

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Small ponded area surrounded by a wide forest buffer,
Fish Habitat	N/A	No potential to contain fish, not connected to a stream or pond
Water Quality	Potential to provide benefits	Ponds a small amount of water, surrounded by forest vegetation, open space
Hydrologic Control	Potential to provide	Ponds a small amount of water, surrounded by forest vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoning for future residential development
Enhancement Potential	Some potential for enhancement	Remove invasive species, nice already, surrounded by open space
Education	Has potential for educational uses	New access being created
Recreation	Is not appropriate for or does not provide opportunities	No public access, no fishing, no trails, no boating, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area, stream nearby

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–20

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Stream, forested, residential, good vegetation cover
Fish Habitat	Contributes	Shaded, woody debris, natural stream channel, salmonids present
Water Quality	Provides benefits	Stream, vegetated, residential area
Hydrologic Control	Potential to provide	Resticted outlet, residential area, within 100–year floodplain
Sensitivity to Impact	Sensitive to secondary effects	Narrow band of open space, surrounded by zoned residential, PFO
Enhancement Potential	Little potential	Provides diverse wildlife habitat, connected to stream, other functions
Education	Potential for educational uses	Diverse habitat, access from busy road
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, diverse habitat, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	Variety of vegetation classes, stream, diverse habitat, some traffic noise from Hwy 211.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-21a

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Good vegetation, residential area, hydrologic connection, buffer
Fish Habitat	Potentially contributes	Stream, vegetation, buffer, not shaded
Water Quality	Provides benefits	Stream, vegetated, residential area
Hydrologic Control	Potential to provide	Resticted outlet, residential area, flooding
Sensitivity to Impact	Potentially sensitive to secondary effects	PSS, residential area
Enhancement Potential	Can be enhanced	Provides diverse wildlife habitat, connected to stream, part of the area has been logged
Education	Potential to provide educational uses	Diverse habitat, access from busy road, good viewing opportunities, ADA barriers, mo sidewalk
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, diverse habitat, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	Variety of vegetation classes, stream, diverse habitat

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–21b

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Residential area, PEM, hydrologic connection lack of buffer
Fish Habitat	Potentially contributes	Residential, lack of riparian vegetation, modified channel
Water Quality	Provides benefits	Stream, vegetated, residential area
Hydrologic Control	Potential to provide	Resticted outlet, residential area, flooding
Sensitivity to Impact	Potentially sensitive to secondary effects	Small size, hydrologic connection, stream
Enhancement Potential	Some potential for enhancement	Hydrologic connection, some undeveloped adjacent land, other functions
Education	Potential for educational uses	No public access, good viewing opportunities, no barriers
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, traffic noises

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-21c

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Residential area, PEM, hydrologic connection lack of buffer
Fish Habitat	Potentially contributes	Residential, lack of riparian vegetation, modified channel
Water Quality	Potential to provide benefits	Stream, water quality, residential area
Hydrologic Control	Potential to provide	Resticted outlet, residential area, flooding
Sensitivity to Impact	Potentially sensitive to secondary effects	Small size, hydrologic connection, stream
Enhancement Potential	Can be enhanced	Hydrologic connection, some undeveloped adjacent land, other functions, no soil compaction
Education	Potential for educational uses	No public access, good viewing opportunities, no barriers
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, traffic noises

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-22

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Residential area, PFO, buffer
Fish Habitat	N/A	
Water Quality	Potential to provide benefits	Flooding, small size, lack of hydrologic connection, residential area
Hydrologic Control	Potential to provide	Flooding, PFO
Sensitivity to Impact	Sensitive to secondary effects	Small size, residential use and zoned use, PFO
Enhancement Potential	Can be enhanced	Other functions, some surrounding endeveloped land, sensitive to secondary effects
Education	Potential for educational uses	No public access, good viewing opportunities, no barriers
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be potentially pleasing	Visual detractors easily removed, no odors, traffic noise

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–23

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Low density residential, undeveloped along stream, PFO, diverse vegetation community
Fish Habitat	Potentially contributes	Shaded stream, woody debris, rocky channel bottom, natural channel, salmonids present
Water Quality	Provides benefits	Stream, vegetated, residential area, water quality
Hydrologic Control	Provides hydrologic control	Resticted outlet, within 100–year floodplain, residential use and zoning
Sensitivity to Impact	Sensitive to secondary effects	PFO, hydrologic connection, zoned residential, stream
Enhancement Potential	Little potential for enhancement	Diverse wildlife habitat, sensitive to secondary effects
Education	Potential for educational uses	No public access, good viewing opportunities, no barriers
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, quiet, natural landscape

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–24

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Small wetland area with residential development and old garden area on north, open space on S
Fish Habitat	N/A	No potential to contain fish, not connected to a stream or pond, does not pond water
Water Quality	Potential to provide benefits	Downslope from residential area, surrounded by forest vegetation, open space
Hydrologic Control	Potential to provide	Downslope from residential area, surrounded by forest vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested to the S, but zoned for future residential development
Enhancement Potential	Some potential for enhancement	Remove invasive species, presently has nice areas, surrounded by open space on the south, west and east
Education	Has potential for educational uses	Two wetland classes can be viewed from the wetland edge, other habitats are nearby: stream, forest
Recreation	Does not provide opportunities	No public access, no fishing, no trails, no boating, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area, stream nearby

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–25

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Small wetland area with residential development to the open space on S, forested
Fish Habitat	N/A	No potential to contain fish, not connected to a stream or pond, does not pond water
Water Quality	Potential to provide benefits	Downslope from residential area, surrounded by forest vegetation, open space
Hydrologic Control	Potential to provide	Downslope from residential area, surrounded by forest vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested around, but zoned for future residential development
Enhancement Potential	Can be enhanced	Nice areas, but could be graded for more ponding, surrounded by open space.
Education	Has potential for educational uses	The whole wetland can be viewed from one point, other habitats are nearby: stream, forest
Recreation	Does not provide opportunities	No public access, no fishing, no trails, no boating, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area, stream nearby

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–26

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Small wetland area surrounded by a wide forest buffer
Fish Habitat	N/A	No potential to contain fish, not connected to a stream or pond
Water Quality	Potential to provide benefits	Ponds a small amount of water, surrounded by forest vegetation, open space
Hydrologic Control	Potential to provide	Ponds a small amount of water, surrounded by forest vegetation, open space
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoning for future residential development
Enhancement Potential	Can be enhanced	Adjacent to Tickle Creek, surrounded by open space, single wetland type
Education	Has potential for educational uses	Two wetland classes and nearby stream and forest
Recreation	Does not provide opportunities	No public access, no fishing, no trails, no boating, or hunting
Aesthetic Quality	Considered to be pleasing	Quiet, adjacent to upland forested area, stream nearby

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–27

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Low density residential, undeveloped along stream, PFO, diverse vegetation community
Fish Habitat	Contributes to fish habitat	Shaded stream, woody debris, rocky channel bottom, natural channel, salmonids present
Water Quality	Provides benefits	Stream, vegetated, residential area, water quality
Hydrologic Control	Potential to provide	Within 100–year floodplain, culverted under road, residential use and zoning
Sensitivity to Impact	Potentially sensitive to secondary effects	PFO, hydrologic connection, zoned residential, stream
Enhancement Potential	Some potential for enhancement	Diverse wildlife habitat, surrounded by undeveloped residential land, hydrologic connection,
Education	Potential for educational uses	No public access, good viewing opportunities, hazardous access, dirt trails in some sections
Recreation	Potential to provide recreational opportunies	Hazardous access, no boating or hunting, trails, fishing only from busy road
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, quiet, natural landscape

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–28

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	PEM/PSS, hydrologic connection to Tickle Creek
Fish Habitat	Contributes	Hydrologic connection to Tickle Creek
Water Quality	Potential to provide benefits	Stream connection, ponding, water quality, well vegetated
Hydrologic Control	Potential to provide	Flooding, within 100–year floodplain, small size, residential area
Sensitivity to Impact	Potentially sensitive to secondary effects	PSS, hydrologic connection to stream, residential use and zoning
Enhancement Potential	Some potential for enhancement	Diverse wildlife habitat, small size, residential land, hydrologic connection
Education	Potential for educational uses	No public access, good viewing opportunities, hazardous road, dirt trail
Recreation	Not appropriate for or does not provide opportunities	Hazardous access, no boating, no fishing or hunting, trail
Aesthetic Quality	Considered to be potentially pleasing	No visual detractors, no odors, busy road

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC–29

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Perennial stream surrounded by forested park, some streamside wetland vegetation
Fish Habitat	Potentially contributes	Perennial stream with shading vegetation downstream, potentially contains fish other than salmonids
Water Quality	Potential to provide benefits	Small size stream, floods, some streamside vegetation, open space
Hydrologic Control	Potential to provide	Small size stream, floods, some streamside vegetation, open space, restricted outlet – culvert
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, zoned residential development upstream
Enhancement Potential	Some potential for enhancement	Diversify habitat, reslope bank, plant more streamside vegetation, surrounded by open space
Education	Has potential for educational uses	Maintained trails, in a park, forested area nearby
Recreation	Provides opportunities	Public access, trails no boating, no fishing, or hunting
Aesthetic Quality	Considered to be potentially pleasing	Small stream, adjacent to upland forested area, with enhancement of wetland, removal of unsightly dams

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-30

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Perennial stream surrounded by pforested park, natural streamside wetland vegetation
Fish Habitat	Potentially contributes to fish habitat	Perennial stream with shading vegetation, Possibly contains non-anadromous fish
Water Quality	Provides benefits	Small sized stream, floods, streamside vegetation, open space, downstream from residential area
Hydrologic Control	Potential to provide	Small stream, floods, streamside vegetation, open space, restricted outlet – culvert
Sensitivity to Impact	Sensitive to secondary effects	Forested, residential development upstream
Enhancement Potential	Can be enhanced	Habitat for some wildlife, perennial stream, small amount of surrounding undeveloped land, sensitive to secondary effects
Education	Has potential for educational uses	Maintained trails, park, surrounded by forested upland
Recreation	Provides opportunities	Public access, trails, no boating, hunting, or fishing
Aesthetic Quality	Considered to be pleasing	Varieties of vegetation classes, stream, open space

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-31

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Paritally forested, small size, residential area, narrow buffer, perennial water source
Fish Habitat	Potentially contributes	Shaded stream downstream of wetland, residential area
Water Quality	Potential to provide benefits	Perennial stream, some flooding at dammed section, small size, residential area
Hydrologic Control	Potential to provide	Flooding, residential use and zoning
Sensitivity to Impact	Sensitive to secondary effects	Water quality, residential
Enhancement Potential	Can be enhanced	Habitat for some wildlife, perennial stream, small amount of surrounding undeveloped land, sensitive to secondary effects
Education	Has potential for educational uses	No public access, no ADA barriers, accessible from residential street
Recreation	Potential to provide opportunities	Unmaintained viewing access from residential street, no fishing, hunting, or boating, habitat for some wildlife
Aesthetic Quality	Considered to be pleasing	Varieties of vegetation classes, surrounding area landscaped by people

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	TC-32

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	small size, residential area, perennial stream source, buffer: narrow to none
Fish Habitat	Potentially contributes	Not shaded, modified channel, culverted at upstream and downstream ends, residential area
Water Quality	Potential to provide benefits	Perennial stream, some flooding, small size, residential area
Hydrologic Control	Potential to provide	Flooding, residential use and zoning, mostly PEM
Sensitivity to Impact	Potentially sensitive to secondary effects	Channelized and culverted stream, residential area, PEM
Enhancement Potential	Has little enhancement potential	Compacted soils (excavation), culverted for significant distance, small size, surrounded by residential development
Education	Has potential for educational uses	No public access, no ADA barriers, accessible from residential street, steep-sided banks
Recreation	Potential to provide opportunities	Access from residential street, habitat for some wildlife, no fishing, hunting, or boating.
Aesthetic Quality	Considered to be pleasing	Varieties of vegetation classes, surrounding area landscaped by people, provides habitat for some wildlife

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	CC–1

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife	Perennial spring/stream surrounded by forest, natural streamside wetland vegetation
Fish Habitat	Contributes	Small perennial stream with shading vegetation, Unlikely, but could contain fish other than salmonids
Water Quality	Potential to provide benefits	Small size stream, streamside vegetation, open space, upstream from residential
Hydrologic Control	Does not provide	Small size stream, streamside vegetation, open space, unrestricted outlet
Sensitivity to Impact	Potentially sensitive to secondary effects	Forested, some residential development upstream
Enhancement Potential	Can potentially be enhanced	Diversify habitat – form pools, plant more streamside vegetation, surrounded by open space
Education	Has potential for educational uses	Small stream in a forested area.
Recreation	Does not provide opportunities	No public access, no trails no boating, no fishing, or hunting
Aesthetic Quality	Considered to be pleasing	Small stream, adjacent to upland forested area, nice wetland seep area.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	CC-2

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Open space, wide buffer, PFO, diverse vegetation community
Fish Habitat	Potentially contributes	Shaded stream, natural channel, shallow water, connection to Fir Creek
Water Quality	Potential to provide benefits	Stream fed by seeps, water quality, surrounded by open space
Hydrologic Control	Potential to provide	PFO, residential development upstream
Sensitivity to Impact	Potentially sensitive to secondary effects	PFO, stream, zoned open space/residential
Enhancement Potential	Some potential for enhancement	Diverse wildlife habitat, surrounded by open space
Education	Potential for educational uses	No public access, good viewing opportunities, steep slopes, diverse wildlife habitat
Recreation	Not appropriate for or does not provide opportunities	No access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, quiet, natural landscape

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	CC-3

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides diverse habitat for wildlife	Open space, wide buffer, PFO, diverse vegetation community
Fish Habitat	Potentially contributes	Shaded stream, natural channel, shallow water, connection to Fir Creek
Water Quality	Potential to provide benefits	Stream fed by seeps, water quality, surrounded by open space
Hydrologic Control	Potential to provide	PFO, residential development upstream
Sensitivity to Impact	Potentially sensitive to secondary effects	PFO, stream, zoned residential upstream, zoned open space downstream
Enhancement Potential	Some potential for enhancement	Diverse wildlife habitat, surrounded by open space
Education	Potential for educational uses	No public access, good viewing opportunities, steep slopes, diverse wildlife habitat
Recreation	Not appropriate for or does not provide opportunities	No access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, natural landscape

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

Function & Condition Summary Sheet for the Oregon Method

Wetland Code:	CC–4

Function	Evaluation Descriptor	Rationale
Wildlife Habitat	Provides habitat for some wildlife species	Open space, PFO, wide buffer, no hydrologic connection to stream within UGB
Fish Habitat	N/A	
Water Quality	Potential to provide benefits	Seeps, water quality, surrounded by open space, small size
Hydrologic Control	Potential to provide	PFO, ponding, upslope residential development, downslope open space
Sensitivity to Impact	Potentially sensitive to secondary effects	PFO, zoned residential upslope, zoned open space downslope
Enhancement Potential	Can be enhanced	Potential for other functions, surrounding open space
Education	Has educational uses	No public access, good viewing opportunities, habitat for some wildlife, no hazards
Recreation	Not appropriate for or does not provide opportunities	No access, no boating, no fishing or hunting
Aesthetic Quality	Considered to be pleasing	No visual detractors, no odors, natural landscape