Annette

Oregon
John A. Kitzhaber, M.D., Governor

Division of State Lands
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Governor
Phil Keisling
Secretary of State
Jim Hill
State Treasurer

June 30, 1999

Ms. Kim Lehmann
Mayor
City of Waldport
PO Box 1120
Waldport, Oregon 97394

**Re: Approval of the Waldport Local Wetlands Inventory and Assessment**

Dear Mayor Lehmann:

I am pleased to notify you that the Division of State Lands has approved your Local Wetlands Inventory (LWI) and assessment. We appreciate your working so closely with our staff and the wetland consultant to ensure that the inventory meets state LWI standards (OAR 141-86-180 to 240) and the city's needs.

Approval by the Division means that the LWI becomes a part of the Statewide Wetlands Inventory. The LWI and functional assessment form the foundation for your wetland planning under Statewide Planning Goal 5. Also, the LWI must now be used by the city instead of the National Wetlands Inventory for the Wetland Land Use Notification Process (ORS 227.350). The final requirement for the inventory is for the city to notify property owners with wetlands mapped on their property within 120 days of this approval.

While considerable effort has been made to accurately identify all wetlands within the study area, the Division's approval does not guarantee that all regulated wetlands have been mapped. Exact wetland boundaries have not been staked or surveyed, and there are inherent limitations in mapping accuracy (e.g., some small non-wetland areas may be encompassed within the mapped wetlands). The Division advises that persons proposing land alteration on parcels containing mapped wetlands first contact the Division, or obtain a wetland boundary delineation by a qualified consultant and submit it to the Division for approval, prior to the land alteration.

We are pleased that the City of Waldport has conducted a thorough wetlands inventory and has made wetland planning a high priority. We look forward to working with you and your staff as you continue on the Goal 5 wetland planning effort.

Sincerely,

Paul R. Cleary
Director

Kim Lehmann - encl.✓

cc: John Lilly, DSL✓
Steve Moser, DSL encl.✓
John van Staveren, Pacific Habitat Services✓
Jeff Weber, DLCD encl✓
Dave Perry, DLCD encl.✓
Diane Butts, DLCD ✓
Yvonne Vallette, EPA encl.✓
Jim Goudzwaard & Richard Gebhart, Corps of Engineers encl. each ✓
John Marshall, FWS, Portland Field Office encl ✓
Dennis Peters, FWS Regional Office encl✓
Patty Snow, ODFW encl.✓
Tom Rosetta, DEQ✓

Project Boundary — On Site Wetland Determination

Watershed Boundary — Off Site Wetland Determination

Drainage — Sample Point • 58

Upland — Wetland Code ALS-1

ALSEA BAY

Yaquina John Point

PACIFIC OCEAN

Big Stump Beach

PAC-1A
PAC-1B
PAC-1C
PAC-1D
PAC-1E
PAC-1F
PAC-1G
PAC-1H
PAC-1J
PAC-1K
PAC-1L
PAC-1M
PAC-2A
PAC-2B
PAC-2C
PAC-3A
PAC-3B
PAC-4
PAC-5A
PAC-5B
ALS-1A
ALS-1B
ALS-2A
ALS-2B
ALS-3
ALS-4A
ALS-4B

DSL Det # 96-0493

(NOT CITY)

CITY LIMITS

PACIFIC WATERSHED
ALSEA WATERSHED

Matchline sheet 1
Matchline sheet 2

Little Creek

Red Hill Park

Sewer Treatment Pond

WALDPORT MIDDLE SCHOOL

WALDPORT SCHOOL

O.S.H.D. MAINT. STA.

MEMORIAL HOME CEMETERY

SUBSTATION

WATER TANK

CRESTVIEW HILLS GOLF COURSE

WALDPORT RANGER STA. (NOT IN CITY)

SEAVIEW DR.
SUNSET WAY
BAY
SPRUCE ST.
SPRING ST.
HEMLOCK ST.
WILLOW ST.
JOHN ST.
ALDER ST.
MAPLE ST.
STRAWBERRY ST.
CEDAR ST.
CEDAR DR.
EDGECLIFF DR.
WILLIAM P. KEADY WAYSIDE
PACIFIC CT.
OVERLOOK DR.
VIEW DR.
NORWOOD LN.
NORWOOD PARK PL.
DOLORES DR.
GREENWOOD WAY
BRENTWOOD DR.
CRESTLINE DR.
LUNDY LN.
ROLPH CT.
BALL BLVD.
BIRD AVE.
PARK DR.
BALL SALMON ST.
ROSE ST.
MICHAEL DR.
MINNEWAUKA AVE.
WAZIYATA AVE.
ADAHI CORONA CT.
SEAWOODS TERR.
LA BARRE
FOREST TERR.
CRESTVIEW DR.
OCEAN CIR.
OCEAN CT.
FAIRWAY DR.
FOREST PKWY.
RANGE DR.
MIDGE LN.
ALICIA LN.
SOUTHMAYD LN.
TARA LN.
SEABROOK LN.
PARK
STATE HWY
MEMORIAL
PATTERSON
COAST
GOVERNOR
OREGON
BREAKERS
SEAWAY LP.
BREAKERS DR.
BREAKERS WAY
BREAKERS CT.
WHITECAP DR.
FERNWOOD LN.
FERNWOOD DR.
FERNWOOD CIR.
FEHERENBACHER RD.
DAHLIA LN.
EDGEWATER DR.
101
PACIFIC SANDS DR.
AZALEA AVE.
ERIKSEN LN.
FAIRWAY CIR.
GREEN DR.
CRESTLINE
Lint

GRAPHIC SCALE

Scale in Feet

Funding for this project was provided by a grant from the Oregon Division of State Lands, Wetlands Planning Assistance grant program. This grant program is supported by a grant from the U.S. Environmental Protection Agency under authority of the Clean Water Act.

THIS MAP IS FOR PLANNING PURPOSES ONLY
WETLAND BOUNDARIES ARE APPROXIMATE
AND SUBJECT TO CHANGE

This map has NOT been approved by the wetland regulatory agencies for permitting purposes. You are advised to contact the Oregon Division of State Lands and the U.S. Army Corps of Engineers with any regulatory questions. There may be additional wetlands within the study area that have not been identified. All wetlands, whether mapped or not, are subject to Federal and State permit requirements. There may also be areas of non-wetland within areas identified as wetlands on this map. In all cases, Federal and State agencies will use actual field conditions, rather than this map, to determine wetland boundaries.

DATE: June 30, 1999

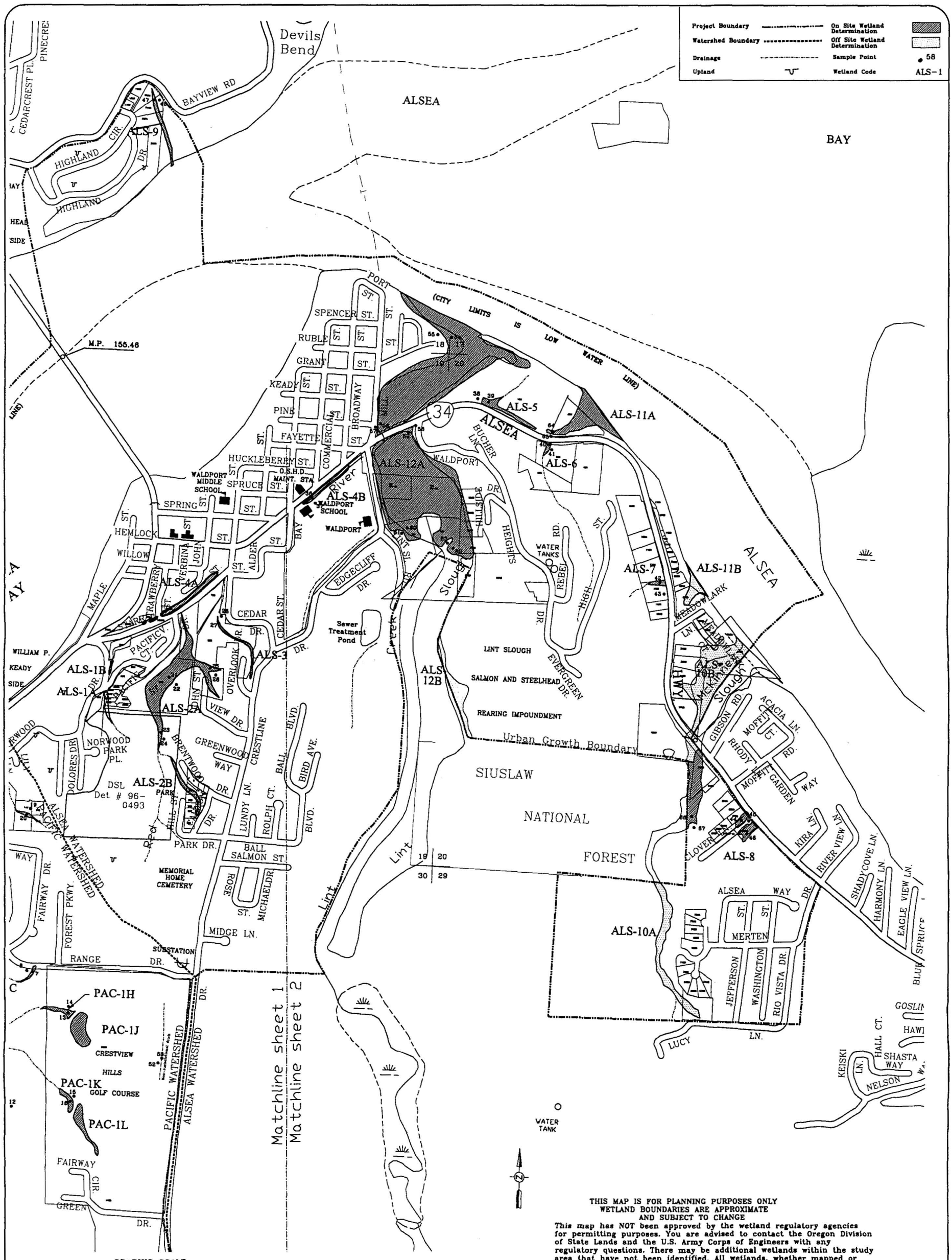
BASE MAP INFO: SOURCE by ODOT, City of Waldport

JOB NO.: 8-1664

# Waldport
# Local Wetlands Inventory

Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, Oregon 97070
Phone: (503) 570-0800

Sheet: 1 of: 2

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# Waldport
## Local Wetlands Inventory

Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, Oregon 97070
Phone: (503) 570-0800

Sheet: 2 of: 2

Newport, OR
(Lincoln Co.)
News Times
(Cir. W - 10,000)
JUL 21 1999

# Waldport senior center siding discussed

5025

By Joel Gallob
*Of The News-Times*

The senior center in Waldport is in need of new siding, Mayor Kim Lehmann told the city council Thursday.

Marilyn Williams had advised the council of the situation several weeks ago, and had requested a waiver of the state's public contracting rules to select a contractor without a bid.

The council did not approve that request, and Lehmann asked what has happened with the siding problem.

City Administrator Mike Dowsett said he had received an inquiry from Gary Pankey, a member of the senior center board, about a month ago, which asked how to proceed. "I suggested that he attend a council meeting and make a presentation with a proposal, since it is, after all, a city-owned building," Dowsett said.

Councilor Gene Moore noted that the senior center board had not asked to send out a request for proposals. And he questioned whether the public works staff could do the work, as the center is a city building.

Councilor Ed Peterson added,t "if it is deteriorating, then we need to address it if it's ours."

Public Works Supervisor John McClintock said his staff could take a look at the building and assess what needs to be done. Councilor George MacGregor added that the city has money received as part of a class action suit against Louisiana-Pacific corporation, which made the siding.

Dowsett emphasized that "the easiest way to start this" would be to have representatives of the senior board come to the council again.

The council decided to recommend such a meeting and asked that McClintock ask staff to assess the siding problems.

In other business, the council:

• Decided to delay possible purchase of an $8,000 television camera system to inspect inside its underground pipes. Bookkeeper Dona Lawson said the money will be available for the purchase, without shifting money from one budget line to another, but the council decided that as the work might be done in August or in September, depending on how dry August is, it was best to wait until the Aug. 19 meeting to decide whether to make the purchase then or later.

• Briefly discussed and then approved two closely related intergovernmental agreement with Toledo, Seal Rock, the Southwest Lincoln Water District, Yachats which would make official the ability of the different jurisdictions to obtain water from each other for fire suppression or for ordinary household purposes, in the event of a drought or other emergency. The Council also approved a Mutual Aid Agreement with Yachats and the Water District that supplemented the other two agreements.

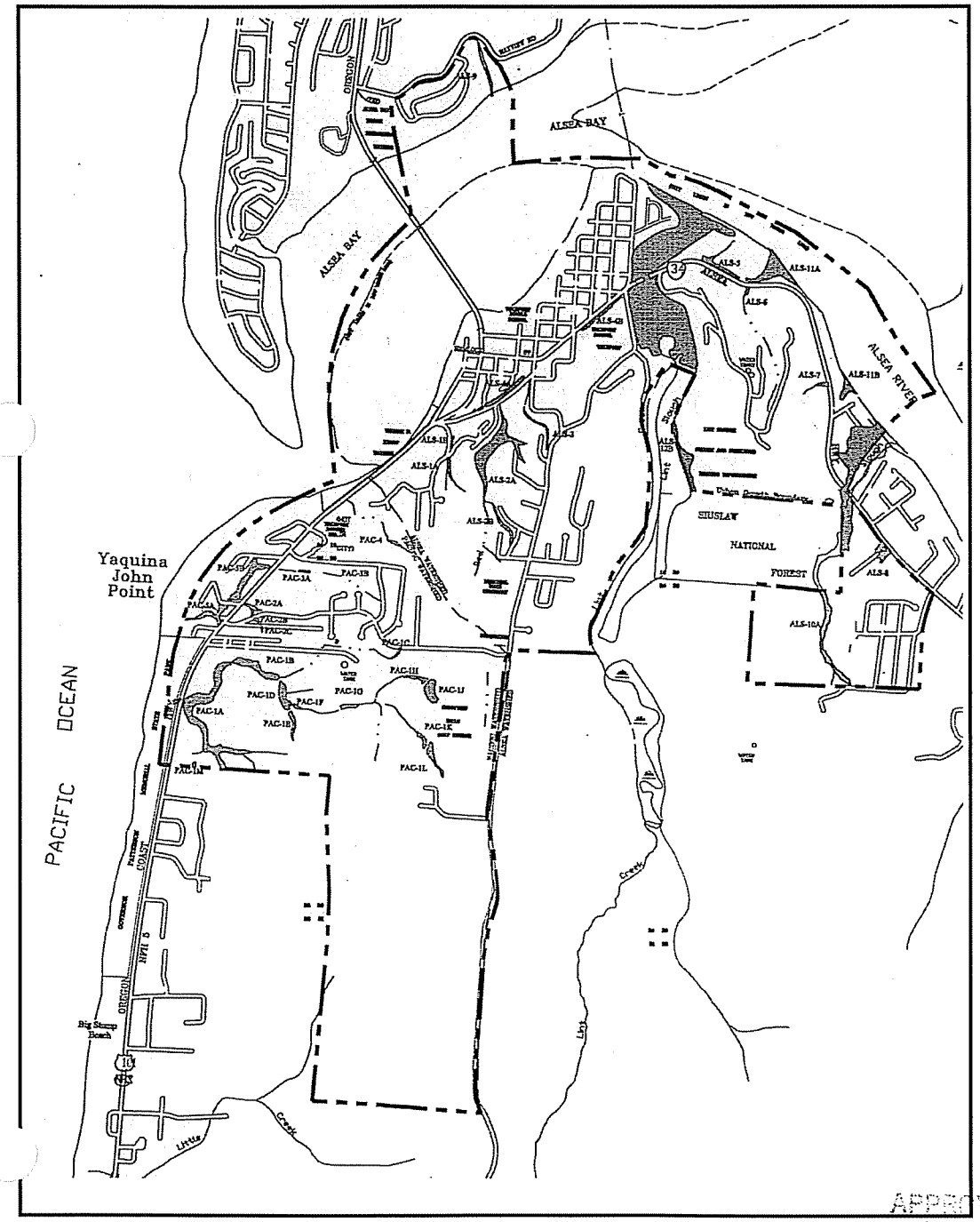
• Received a letter from the Division of State Lands that informed the city that its local wetlands inventory and assessment had been approved. The approval means the inventory will become a part of the statewide wetlands inventory under statewide planning Goal 5.

"The final requirement for the inventory is for the city to notify property owners with wetlands mapped on their property within 120 days of this approval," the approval states.

The approval does not guarantee that all regulated wetlands have been mapped, DSL Director Paul Cleary wrote. "The Division advises that persons proposing land alterations on parcels containing mapped wetlands first contact the division, or obtain a wetland boundary delineation by a qualified consultant and submit it to the division for approval, prior to land alteration."

MacGregor, who had opposed the inventory when it was first brought before the City by DSL and local planner Sally Rose, said he found it "very interesting that DSL has OK'ed our wetlands survey, which the city council has not even been presented with."

# City of Waldport
# Local Wetlands Inventory and
# Riparian Inventory




**Prepared for**

City of Waldport
Waldport, Oregon

**Prepared by**

Pacific Habitat Services, Inc.
Wilsonville, Oregon
(503) 570-0800

June 1999

APPROVED WETLANDS INVENTORY
Oregon Division of State Lands
Meets LWI standards
Date 6/30/99 Approved by A. Lalka

# City of Waldport
# Local Wetlands Inventory and
# Riparian Inventory

**Prepared for**

City of Waldport
PO Box 1120
Waldport, Oregon 97394

**Prepared by**

John van Staveren
Patricia Farrell
Caroline Rim
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(503) 570-0800
(503) 570-0855 FAX
PHS Project Number: 8-1664

**June 30, 1999**

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# 1.0 INTRODUCTION

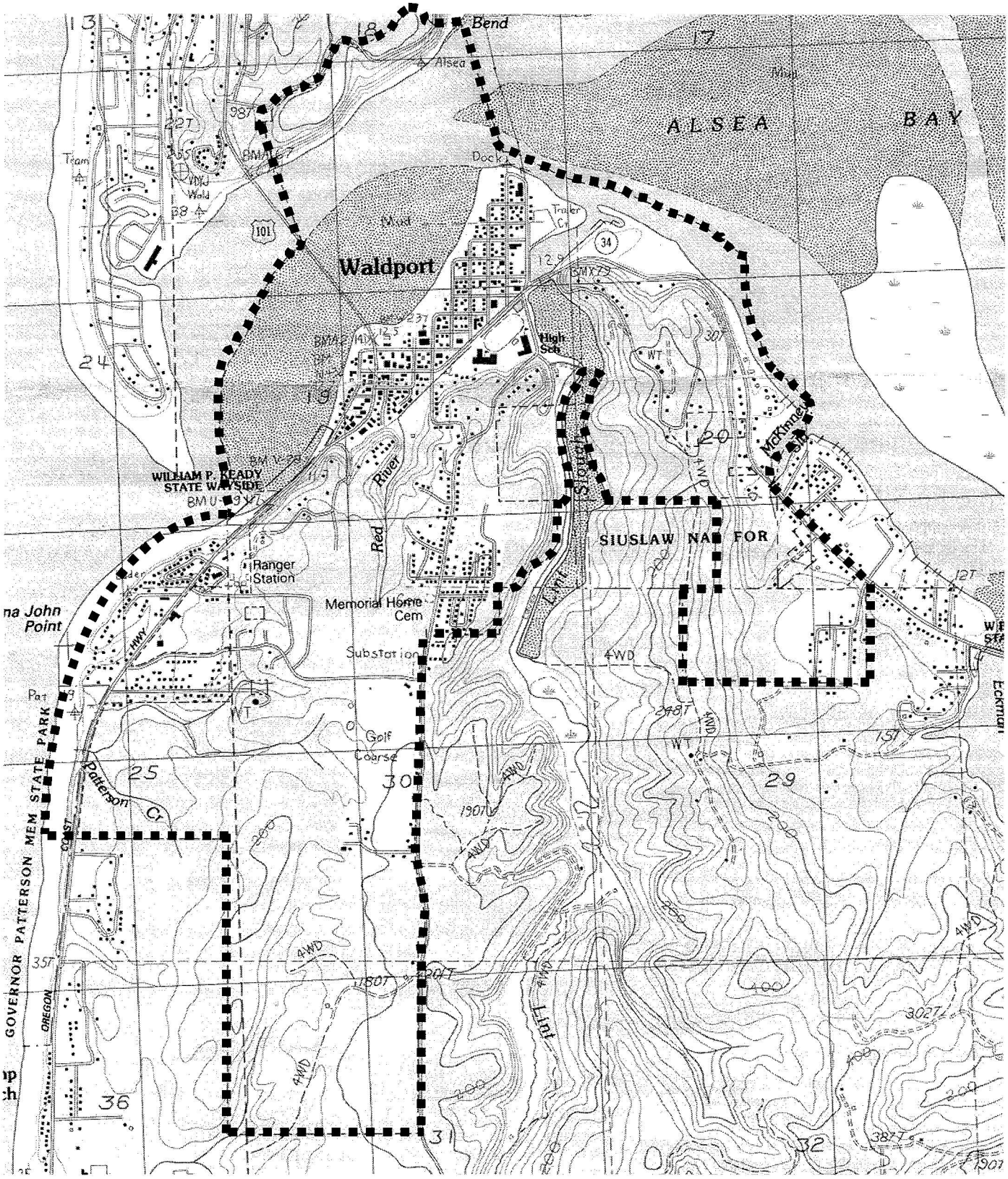
The City of Waldport (City), through a grant from the Department of Land Conservation and Development *Healthy Streams Partnership* program, hired Pacific Habitat Services, Inc. (PHS) to conduct a Local Wetlands Inventory (LWI) for an approximately 1,790-acre study area located within the City's Urban Growth Boundary, including lands both east and west of Highway 101. The goal of the study is to address the requirements of Statewide Planning Goal 5 (*Natural Resources, Scenic and Historic Areas, and Open Spaces),* and Goal 17 *(Coastal Shorelands)* Oregon Administrative Rule (OAR) Section 660, Division 23. Goal 16 (*Estuarine Resources*) also applies to portions of the study area.

The objective of Goal 5 is to "protect natural resources and conserve scenic, historic and open space resources for present and future generations." Goal 17 specifically addresses coastal shorelands. It is intended "to conserve, protect, where appropriate, develop and where appropriate restore the resources and benefits of all coastal shorelands, recognizing their value for protection and maintenance of water quality, fish and wildlife habitat, water-dependent uses, economic resources and recreation and aesthetics." Goal 17 applies to an area called the coastal shorelands planning area, which is generally all lands bordering the ocean, estuaries, and coastal lakes and lands west of Highway 101. Goal 16 is intended to "recognize and protect the unique environmental, economic, and social values of each estuary and associated wetlands."

Specifically, the City hired PHS to determine the location and extent of wetlands; determine Goal 5 and Goal 17 wetlands; assess the quality of the wetlands; determine which of the Goal 5 wetlands are Locally Significant Wetlands according to state administrative rules (OAR 141-86-300-350); determine which of the Goal 17 wetlands are major marshes; inventory and assess the quality of riparian areas; and determine significant riparian areas. PHS was also hired to help the City develop ordinances to protect their Goal 5 and 17 resources. This report presents the results of both the wetlands and the riparian inventories and assessments. A separate report by PHS will include the determination of significant natural resources and local land use ordinances (*City of Waldport Statewide Planning Goal 5 and Goal 17 Wetlands/Major Marshes and Riparian Corridors Determination of Significance*, PHS, 1999).

The study area is defined by the Urban Growth Boundary (UGB) of the City of Waldport. Waldport is located in the coastal area of Lincoln County, at the mouth of the Alsea River (Township 13 South, Range 11 West, Sections 17, 18, 19, 20, 29, 30, and 31 and Township 21 South, Range 12 West, Sections 13, 24, and 25, Willamette Meridian). The study area is defined by the Pacific Ocean to the west, Bay View Road to the north, McKinney Slough to the east, and south of the Crestview Hills Golf Course. State Highway 34 and Highway 101 pass through the project area. In addition to the Alsea River and Alsea Bay, four perennial streams, Patterson Creek, Red River, Lint Slough and McKinney Slough, are within the study area.

Figure 1 illustrates the location and general topography of the study area.




6/30/99 8-1664

Figure 1. Location and generalized topography for the Waldport Local Wetlands Inventory site in Waldport, Oregon (USGS, Waldport quadrangle, 1:24,000, provisional edition, 1984).

## 1.1 Report Format

This report begins by discussing the definitions used in the report and inventory (Section 2), followed by the methodology used to conduct the field work for the LWI and the riparian inventory, the wetland and riparian assessment methodology, and the methodology used to produce the maps for the inventory (Section 3). Section 4 discusses the project cartography and Section 5 presents the study area characteristics, such as the climate, topography, soils and vegetation. Section 6 discusses the Local Wetlands Inventory results, including wetland distribution, acreage, and Cowardin classification. This section also includes the results of the *Oregon Freshwater Wetland Assessment Methodology*. Section 7 presents the significant wetlands in the project area. Section 8 provides the results of the riparian inventory and assessment results, and Section 9 presents the significance riparian area determination. Section 10 summarizes the project. Section 11 provides a list of the references used in the report.

There are six appendices to the report. Appendix A contains the wetland characterization forms for each wetland, organized by wetland code. The characterization sheets note wetland location, tax lots, acreage, Cowardin classification, soil series, wetland vegetation, adjacent upland vegetation, and other notes related to adjacent wetlands or hydrology. This form was completed for each wetland unit, regardless of whether it was an on-site or off-site determination. If it was an on-site determination, sample point numbers are noted. Locally significant wetlands are also noted on the characterization form.

Appendix B contains the wetland determination data forms. These forms document the sample points taken for the on-site wetlands and adjacent uplands. Hydrology, soils, and dominant vegetation are recorded for each sample point in order to determine whether it is wetland or upland.

Appendix C is the *Oregon Freshwater Wetland Assessment Methodology* data and summary for each wetland unit. Each wetland's functions and conditions are assessed according to an established state methodology. The results and rationale are also summarized for each wetland unit. Appendix D contains the determination of significance for each wetland unit.

Appendix E contains the riparian characterization, riparian width forms, and the riparian assessment. Appendix F contains a listing of plant species encountered or expected within the project area. Appendix G is the determination of significance for each riparian area.

# 2.0 DEFINITIONS

These terms helped define the methodology used for the City of Waldport Local Wetlands Inventory and may be referred to in this report.

**1987 Manual**

*The Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1.* (Environmental Laboratory 1987)

This manual is used by the Corps and DSL to document the location of wetlands within the State of Oregon. The 1987 manual provides technical criteria, field indicators, and recommended procedures to be used in determining whether an area is a jurisdictional wetland. Undisturbed areas require three criteria for them to be classified as wetland. These criteria are hydric soils, a dominance of hydrophytic vegetation, and wetland hydrology.

**Estuarine System**

*"All tidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens and all such wetlands that occur in tidal areas where salinity is greater than 0.5%. This includes areas traditionally called swamps, marshes, fens, as well as shallow, permanent or intermittent water bodies called ponds."* (Cowardin et.al. 1979)

**Goal 5**

*Goal 5 (OAR 660, Division 23) is intended "to protect natural resources, and conserve scenic and historic areas and open spaces."* (DLCD, 1995)

**Goal 16**

*Goal 16 is intended "to recognize and protect the unique environmental, economic, and social values of each estuary and associated wetlands; and to protect, maintain, where appropriate develop, and where appropriate restore the long-term environmental, economic, and social values, diversity and benefits of Oregon's estuaries."*(DLCD, 1995)

Goal 16 estuarine resources are designated in the City of Waldport Comprehensive Plan. Although wetlands designated as estuarine resources are included in the Local Wetlands Inventory they are not included in the wetland quality assessment.

**Goal 17**

*Goal 17 specifically addresses coastal shorelands. It is intended "to conserve, protect, where appropriate, develop and where appropriate restore the resources and benefits of all coastal shorelands, recognizing their value for protection and maintenance of water quality, fish and wildlife habitat, water-dependent uses, economic resources and recreation and aesthetics."* (DLCD, 1995)

Goal 17 applies to an area called the coastal shorelands planning area defined in the goal, which is generally all lands bordering the ocean, estuaries, and coastal lakes. Coastal shorelands include "natural or man-made riparian resources, especially vegetation necessary to stabilize the shoreline and to maintain water quality and temperature necessary for the maintenance of fish habitat and spawning areas." Coastal jurisdictions must inventory or identify coastal shorelands, including riparian resources.

**Growing Season**

*"The portion of the year when soil temperatures at 19.7 inches below the soil surface are higher than biological zero (41° Fahrenheit, 5° Celsius)."* (COE, 1987)

The growing season for any given site or location is determined from Natural Resource Conservation Service (NRCS, formerly the U.S. Soil Conservation Service SCS) data and information. The length of the season can be approximated from frost free days, based on air temperature.

**Hydric Soils**

*"Soils which are ponded, flooded, or saturated for long enough during the growing season to develop anaerobic conditions."* (USDA, SCS, 1985)

Periodic saturation of soils causes alternation of reduced and oxidized conditions which leads to the formation of redoximorphic features (gleying and mottling). Mineral hydric soils will be either gleyed or will have bright mottles and/or low matrix chroma. The redoximorphic feature known as gley is a result of greatly reduced soil conditions which result in a characteristic grayish, bluish or greenish soil color. The term mottling is used to describe areas of contrasting color within a soil matrix. The soil matrix is the portion of the soil layer that has the predominant color. Soils which have brightly colored mottles and a low matrix chroma are indicative of a fluctuating water table.

Hydric soil indicators include: organic content of greater than 50% by volume, sulfidic material or "rotten egg" smell, and/or presence of redoximorphic features and dark soil matrix, as determined by the use of a Munsell Soil Color Chart. This chart establishes the chroma, value and hue of soils based on comparison with color chips. Mineral hydric soils usually have a matrix chroma of 2 or less in mottled soils, or a matrix chroma of 1 or less in unmottled soils.

**Hydrophytic Vegetation**

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

The U.S. Fish and Wildlife Service, in the *National List of Plant Species that Occur in Wetlands*, has established five basic groups of vegetation based on their frequency of occurrence in wetlands. These categories, referred to as the "wetland indicator status," are as follows: obligate wetland plants (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), and obligate upland (UPL).

## Local Wetlands Inventory (LWI)

An inventory of all wetlands greater than 0.5 acres in size within a local jurisdiction using the standards and procedures of OAR 141-86-110 through 141-86-240.

In 1989, the Oregon state legislature authorized DSL to develop a statewide wetlands inventory for planning and regulatory purposes. Accordingly, DSL established Local Wetlands Inventory (LWI) standards and guidelines under ORS 196.674. An approved LWI replaces the National Wetlands Inventory maps and is incorporated into the statewide wetlands inventory.

An LWI is conducted using color or color infrared aerial photographs taken within 5 years of the inventory initiation and at a minimum scale of 1 inch = 400 feet (1" = 400'). Wetlands are located using the on-site option where access to property is allowed, or off-site where access is denied. Wetlands can be mapped off-site by using information such as topographic and National Wetlands Inventory maps, aerial photographs, and soils surveys.

The approximate location of wetlands is placed on a parcel-based map. The parcel-based map allows the property owner, the local jurisdiction, and DSL, to know which tax lots may contain wetlands.

The maps and documents produced for the LWI are intended for planning purposes only. Mapped wetland boundaries are accurate to within 25 feet; however, there may be unmapped wetlands that are subject to regulation. In all cases, actual field conditions determine wetland boundaries.

## Palustrine System (P--)

*"All nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens and all such wetlands that occur in tidal areas where salinity is less than 0.5%. This includes areas traditionally called swamps, marshes, fens, as well as shallow, permanent or intermittent water bodies called ponds."* (Cowardin et.al. 1979)

- **Unconsolidated bottom (PUB)**

*A wetland and deepwater habitats with at least 25% cover of particles smaller than stomes and a vegetative cover less than 30%.*

- **Emergent Wetland (PEM)**

*These wetlands have rooted herbaceous vegetation which stand erect above the water or ground surface.*

- **Scrub-shrub Wetland (PSS)**

*Wetlands dominated by shrubs and tree saplings that are less than 20 feet high.*

- **Forested Wetland (PFO)**

*Wetlands dominated by trees that are greater than 20 feet high.*

**Riparian Area**

*"The area immediately adjacent to a water resource, which affects or is affected by the water resource. Riparian areas do not include the water resource itself."* (PHS, 1998)

**Riparian Assessment**

*"Determining the relative quality of a riparian area by assessing its functions."* (PHS, 1998)

An evaluation of the ability of the riparian area to provide water quality, flood management, thermal regulation, and wildlife habitat functions. The methodology generally used to determine the relative quality of riparian areas for purposes of an inventory is *The Urban Riparian Inventory and Assessment Guide.*

**Riparian Function**

*A characteristic action or role provided by riparian areas, such as water quality; flood management; thermal regulation; and wildlife habitat.* (PHS, 1998)

**Riparian Inventory**

An inventory of location and extent of riparian areas within the boundaries of the Local Wetlands Inventory using *"The Urban Riparian Inventory and Assessment Guide."*

**Riverine System**

*"The riverine system includes all wetlands and deepwater habitats contained within a channel."* (Cowardin, et.al. 1979)

**Waters of the State**

*Natural waterways including all tidal and nontidal bays, intermittent streams, constantly flowing streams, lakes, wetlands and other bodies of water in this state, navigable and nonnavigable. Natural waterways are defined as: waterways created naturally by geological and hydrological processes, and waterways that would be natural but for human-caused disturbances (e.g. channelized or culverted streams,*

*impounded waters, partially drained wetlands or ponds created in wetlands).* (ORS 196.800-196.990, 1995)

**Water Resource**

*"An intermittent or perennial stream, pond, river, lake and including their adjacent wetlands."* (PHS, 1998)

**Wetland**

*"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).

**Wetland Assessment**

*Determining the relative quality of a wetland by assessing its functions and conditions. The methodology generally used to determine the relative quality of wetlands for purposes of an LWI is the Oregon Freshwater Wetland Assessment Methodology.* (Roth, et. al. 1996)

**Wetland Classification**

*The classification of wetlands as defined by plants, soils and the frequency of flooding is described in "Classification of wetlands and deepwater habitats of the United States."* (Cowardin, et. al. 1979) See Palustrine System and Estuarine System.

**Wetland Condition**

*"The integrity of a wetland's physical and biological structure. This determines the ability of the wetland to perform specific functions, as well as its resilience and enhancement opportunities."* (Roth et al., 1996)

**Wetland Function**

*"A characteristic action or behavior associated with a wetland that contributes to a larger ecological condition such as wildlife habitat, water quality and/or flood control."* (Roth, et. al. 1996)

**Wetland Hydrology**

*"Permanent or periodic inundation or prolonged soil saturation sufficient to create anaerobic conditions in the upper soil profile."* (COE, 1987)

Wetland hydrology is related to duration of saturation, frequency of saturation, and critical depth of saturation. The 1987 manual defines wetland hydrology as inundation or saturation within a major portion of the root zone (usually above 12 inches), typically for at least 12.5% of the growing season. 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 other evidence.

**Wetlands Regulation**

Wetlands in Oregon are regulated by the Division of State Lands (DSL) under the Removal-Fill Law (ORS 196.800-196.990) and by the U.S. Army Corps of Engineers (Corps) through Section 404 of the Clean Water Act.

# 3.0 PROJECT METHODOLOGY

## 3.1 Public Involvement

Prior to beginning the inventory, the City of Waldport mailed notices to selected landowners who may have wetlands on their property. Landowners who had areas of mapped hydric soils, soils with hydric inclusions, National Wetlands Inventory mapped wetlands, or suspected wetland areas received a notice of permission for site access.

Landowners were requested to mark a box on the access notice, either granting site access, denying site access, or granting access by appointment. If there was no response, individual landowners were contacted directly by either the City or PHS. Access information was then transferred to the base map for use in the field.

Two public meetings were held during the course of the inventory. The first meeting was held on September 24, 1998, to introduce the project to the residents of Waldport. This meeting was held prior to the date required for return of the access request letters to answer any questions affected landowners may have for representatives of the City, PHS, or DSL.

The second public meeting was held on May 4, 1999, to present the draft results of the wetland inventory to the City Planning Commission and residents of Waldport. Changes made to the maps at the public meeting and verified in the field, appear on the final version of the maps following agency review of the draft products.

## 3.2 Local Wetlands Inventory Methodology

### 3.2.1 Routine Off-site Determination

Prior to beginning field work, off-site mapping was conducted to determine the approximate location of wetland boundaries based on available information. This information included the USGS topographic quadrangles, the *Soil Survey of Lincoln County Area, Oregon* (NRCS, 1997), *Soil Survey of Alsea Area, Oregon* (SCS, 1973), the *National Wetlands Inventory* maps, and true color aerial photographs (WAC, March 5, 1997; 1"=400'). If access was

allowed, the wetland boundaries were verified in the field (see Section 3.2.2). If access was not granted, the boundaries were based on the mapping conducted in the office, and on observation of wetland boundaries from adjacent roads, properties, or water bodies.

### 3.2.2 Routine On-site Determination

Where property access permission had been granted, on-site observation and inspection of soils, vegetation, and hydrology were made using the Routine On-site Method of the 1987 manual. Soil pits were excavated up to a depth of approximately 18-inches in selected locations. The soil profiles were examined for hydric soils and wetland hydrology field indicators. A visual percent-cover estimate of the dominant species of the plant community for a maximum 30-foot radius was conducted at each sampling location. Sampling locations were chosen to document a change in the wetland boundary and a particular plant community. Data was recorded in the field and transferred to computer-generated wetland delineation data sheets (Appendix B).

Field work for the inventory was conducted between September 1998 and March 1999. No wetland boundaries were staked or flagged in the field.

## 3.3 Wetland Quality Assessment

### 3.3.1 The Oregon *Freshwater Wetland Assessment Methodology*

The quality of wetlands in the study area was assessed using the *Oregon Freshwater Wetland Assessment Methodology* (OFWAM) (Roth et al. 1996). OFWAM was developed by an interagency committee to assess the relative quality of wetlands primarily for planning and educational purposes. Copies of the methodology are available from DSL for a fee. OFWAM does not assign a numeric ranking to the wetlands, but does determine the relative quality of six functions and three conditions for each of the wetlands. A description of each of the functions and conditions is included below.

**Wetland Functions**

*Wildlife habitat*: Evaluates the habitat diversity for species usually associated with wetlands, without emphasizing one particular species. Wetlands assessed by OFWAM can provide diverse habitat for wildlife, habitat for some wildlife species, or does 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 can have fish habitat function intact, impacted or degraded, or lost or not present.

*Water Quality*: Evaluates the potential of a wetland to reduce the impacts of excess nutrients in storm water runoff on downstream waters. A wetland's water quality function can be assessed by OFWAM as intact, impacted or degraded, or lost or not present.

*Hydrologic control*: Evaluates the effectiveness of a wetland to reduce downstream flood peaks and store floodwaters. A wetland's hydrologic control functions can be assessed by OFWAM as intact, impacted or degraded, or lost or not present.

*Education*: Evaluates the suitability of a wetland to provide educational opportunity and act as an "outdoor classroom." A wetland assessed by OFWAM can have educational uses, have the potential to provide, or not be appropriate for educational uses.

*Recreation*: Evaluates the suitability of a wetland and associated watercourses for non-powered boating, fishing, and similar recreational activities. A wetland assessed by OFWAM can provide, have the potential to provide, or not provide recreational opportunities.

**Wetland Conditions**

*Sensitivity to Future Impacts*: Evaluates the wetland's ability to sustain itself and its ability to recover from future impacts. It is an indication of risk to the wetland because of future changes in the watershed and surrounding land. A wetland can be assessed by OFWAM as sensitive to future impacts, potentially sensitive to future impacts, or not sensitive to future impacts. An undisturbed forested wetland is more sensitive to future impact than a wetland which has already been disturbed, such as agricultural wetland.

*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 wildlife habitat, fish habitat, etc. Wetlands which provide diverse wildlife habitat were not assessed in this section, as per the revised OFWAM. Wetlands are assessed as either high enhancement potential, moderate enhancement potential, or little enhancement potential.

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

### 3.3.2 Wetlands of Special Interest for Protection

The first filter in OFWAM is to determine whether the wetland is in a management plan, is protected by regulatory rules or statutes, or is uncommon in Oregon. Ten questions are answered for each wetland and a "yes" answer to any of the questions puts the wetland into the "special interest for protection" category. If the wetland falls into this category, it is noted on the wetland characterization sheet.

### 3.3.3 Field Methodology

During the process of determining the boundaries for the LWI, data were also collected for the process of determining its relative quality. Data collected for this purpose are explained in the *Wetland Characterization* section of OFWAM. Data collected in the field included the Cowardin classes, the types of disturbance (if any) in the wetland area, the hydrology of the

wetland area (e.g. the location of constrictions), the presence of fish, large woody debris, the degree of vegetative cover, and other information necessary to complete the assessment of the wetland in the office.

If the wetland determination was off-site, the OFWAM section and wetland characterization was based on review of the aerial photographs and knowledge of other similar or adjacent wetlands.

### 3.3.4 Office Assessment

Subsequent to the field work, the data collected for each wetland were used to answer questions for each function and condition. Additional information on the wetlands, the landscape and the general area were gathered in the office. The answers within each function and condition section of the methodology were entered into a computer spreadsheet, which automatically displays the results of the assessment methodology.

Prior to starting the OFWAM assessment certain criteria or baseline information was established. The following is a list of the criteria used in answering the questions:

The Oregon Department of Environmental Quality has mapped the Alsea River as water quality limited due to summer temperatures (ODEQ, 1996). This information was used in the following questions in OFWAM: Wildlife, question 7; Fish Habitat, question 4; Water Quality, question 6; and Sensitivity to Future Impacts, question 3.

Oregon Department of Fish and Wildlife (ODFW) has inventoried anadromous fish (e.g. coho, chinook, steelhead) in the Alsea River, Lint Slough, and McKinney Slough. Other species of concern, such as resident cutthroat trout, are likely to be present in the headwaters of the other perennial streams (ODFW, pers. comm.). This information was used in Fish Habitat, question 6. Alsea Bay is mapped as Essential Salmonid Habitat by ODFW and DSL (DSL, OAR 141-102-030, 1996).

The enhancement potential section was not required if the wetland was assessed with "diverse wildlife habitat," as per OFWAM directive. In addition, question 3 was specifically directed towards wetlands whose primary source of hydrology was surface water. If this was not the case (i.e. primary source of hydrology is groundwater), question 3 was not answered.

## 3.4 Riparian Inventory

### 3.4.1 Urban Riparian Inventory and Assessment Guide

The Urban Riparian Inventory and Assessment Guide (Riparian Guide) was used for the Waldport riparian inventory. The Riparian Guide depends on a combination of best available knowledge, field observations, and best professional judgment. The methodology is comprised of the riparian inventory and the riparian assessment. The riparian inventory involves gathering and assimilating information pertinent to the project site, developing a base map, and completing the Riparian Characterization Form.

The guide was designed to work in conjunction with the LWI and relies on the same aerial photograph or base map. In addition, coding of the riparian areas is based on hydrologic basins, reflecting the coding system established for the LWI. The inventory portion of the Guide depends on the completion of a Riparian Characterization Form and Riparian Width Determination Form.

A completed Riparian Characterization Form provides information on the physical and biological characteristics of the riparian area, such as vegetation, slope, adjacent land uses, and degree of disturbance. Most of the form was completed on-site, provided access was allowed. However, some portions, such as the mapped soil series, were completed in the office. The questions are answered separately for the riparian areas on both sides of a stream.

The riparian width is measured from the edge of the water resource, typically either the top of a streambank or the outer edge of a wetland, lake, or pond. Riparian areas on both sides of a stream channel are assigned separate widths. Right and left widths are not combined and do not include the channel. The riparian potential width is based on the dominant riparian tree species within 100 feet of the water resource. The height of the dominant tree species at maturity will be used as a distance to define the outer riparian boundary. The height of this tree species at maturity is called the potential tree height (PTH). PTH is used as the potential riparian width because it represents a distance in which a tree can still affect the water resource (e.g. shade, organic material).

Where riparian area trees have been eliminated by land-use activities or natural causes, such as development, land slides, or logging, it may be necessary to extrapolate tree heights from a reference site. The reference site should be similar in character and landscape position and should be located as close as possible to the riparian reach. If a reference site is used, it is noted on the Width Determination Form. If a reference site cannot be located, field observations and reference materials must be used to establish PTH.

Although the riparian width will never exceed the PTH, it may be less than the PTH if impervious surfaces or permanent structures (e.g. buildings or roads) are inventoried within the riparian area. Therefore, on the Riparian Width Determination form, the first width represents the PTH and the second width represents the actual width as determined in the field and during review of aerial photographs.

Completion of the Riparian Width Determination Form also requires drawing a typical cross section through the riparian area.

### 3.4.2 Riparian Assessment

Riparian areas provide numerous and complex functions that affect both aquatic and terrestrial systems. Many ecological functions of riparian areas are also provided by wetlands, floodplains, and vegetated upland areas.

The Riparian Function Assessment evaluates the ability of the riparian area to provide water quality, flood management, thermal regulation, and wildlife habitat functions. The results indicate whether the functions of each reach are intact, degraded, or severely impacted. The assessment is completed by answering a series of questions. Most of the questions are intended to be answered using data from the Riparian Characterization Form.

Because certain elements or characteristics of a riparian area are more critical to its function, the answers are "weighted." The points are then totaled for each side and for each function. Based on the score, the riparian function will be assessed as high, medium or low.

The results of the Riparian Function Assessment for all of the riparian areas within the inventory study area are then transferred to a Riparian Function Assessment Summary Table.

### 3.4.3 Riparian Functions

***Water Quality***

Riparian areas can enhance water quality in many ways. Undisturbed, densely vegetated riparian areas trap sediments, inhibit erosion and filter runoff originating from impervious surfaces, lawns, golf courses, etc.

Sedimentation and erosion, although natural processes, are accelerated in urban areas by increased impervious surfaces. Impervious surfaces also inhibit infiltration. Sediment within a riparian area can be from erosion of poorly vegetated uplands, runoff from impervious surfaces, or floods from an adjacent water resource. Sediments often carry nutrients (e.g. phosphates and nitrates) and pollutants (e.g. heavy metals, hydrocarbons) to water resources, altering water chemistry, burying spawning gravels and impacting fish and wildlife habitat. Excessive concentration of nutrients in the water can trigger algal blooms, depleting the water of oxygen required by fish and other aquatic organisms.

The ability of a riparian area to resist erosion is related to slope, soil type, type of vegetation, vegetation cover, landscape position, and degree of human disturbance.

***Flood Management***

Riparian areas and associated wetlands and floodplains provide a valuable flood management function by reducing the force and volume of floodwaters. Floodwaters flowing into a vegetated flood prone riparian area can be slowed or temporarily stored, reducing peak flows and flooding downstream. Woody vegetation, in particular, resists floodwaters and reduces its velocity. Topographic features, such as swales and depressions, can enhance a riparian area's ability to manage flood flows. Reducing the velocity of floodwaters in the riparian area allows infiltration of water into the soil. Water entering the soil is slowly released into the main channel, delaying its movement downstream.

### *Thermal Regulation*

Water temperature affects the ability of a stream to support viable populations of certain aquatic organisms. Riparian shade, especially forest canopy, moderates temperature within and adjacent to a water resource. Although stream temperatures are important throughout the year, summer temperature is generally more critical for fish species such as salmonids. High water temperatures and sunlight are factors that can promote algal blooms, reducing dissolved oxygen required by anadromous fish and other cold-water dependent organisms.

The aspect or orientation of the water resource and the height of the adjacent riparian vegetation play important roles in how effective riparian vegetation is in providing shade.

### *Wildlife Habitat*

Riparian areas provide valuable habitat for wildlife and influence fish habitat. The highest quality wildlife habitat in urban areas has a variety of plant species and layers, a perennial water source, and some degree of protection or buffering from disturbance.

Riparian areas are particularly important migration corridors between upland and aquatic systems for a wide variety of species. It has been reported that the majority of Oregon's major wildlife species, including amphibians and reptiles, use wetlands or riparian areas during some portion of their life cycle.

## 4.0 CARTOGRAPHY

Color aerial photographs were obtained for use in the field. These photos are 1997 true color, with a scale of approximately 1 inch = 400 feet. Clear acetate was overlaid and permanently registered on the photographs and preliminary wetland boundaries and data point locations were drawn directly on the acetate in the field. In addition, areas within the project area which permission to enter was denied were drawn on the acetate overlays. These acetate sheets were then removed from the photographs at the completion of field work, scanned into a digital format and inserted into the computer-based map.

The base map information was provided by the Oregon Department of Transportation and the City. Base map data included a hard copy of the parcel-based tax lots, roads, and the project boundary. This information was not available digitally.

Additional layers added to the AutoCAD base map included watershed basin boundaries, streams from the USGS, additional geographic names, wetland codes, riparian codes, and sample point locations. A hydrologic basin refers to the drainage area for an individual named stream or other water feature, such as a wetland, lake, or pond.

Each wetland was assigned a code beginning with the three letter hydrologic basin designation and the number of wetlands within each watershed (e.g. ALS- # for Alsea River, PAC-# for Pacific Ocean). Wetlands that were hydrologically connected but separated by roads or were similar in character and in close proximity, were labeled with a code modifier (e.g. ALS-2A and 2B). Off-site determinations were shown with different hatch patterns.

The riparian mapping was drawn on the 1" = 400' base maps and scanned into the base as a separate layer. The riparian areas were labeled with a riparian code (e.g. R-5) and an assessment location symbol. Each reach was assigned a separate code. Riparian widths were transferred to the base map. They were measured horizontally from the outer edge of the stream or associated wetland. The final digital maps include a legend, north arrow, scale, and a disclaimer if not all wetland or riparian areas were assessed on-site or if mapping inaccuracies occur.

# 5.0 STUDY AREA CHARACTERISTICS

## 5.1 Setting

### 5.1.1 Culture and Industry

The present pattern of land use in Waldport has been determined by the location of transportation routes, topography, and land ownership. Settled in the 1880s, the earliest industries were associated with clam and crab fishing and packing. Industry and commerce have historically been oriented towards the river, the railroad and the highways. Earliest development within Waldport was along the river frontage to take advantage of barge and boat transportation. In general, early development was confined to the relatively level area to the south of the Alsea River. However, with the rise in population, residential and small industrial development has spread to the nearby hillsides. The local economy is now based primarily on the tourist industry and a growing retirement community.

## 5.2 Topography

The project area is comprised of a level terrace at the south side of the Alsea Bay, steep slopes to the south and north of the bay, and four major drainages associated with Patterson Creek, Red River, McKinney Slough and Lint Slough. Two major ridges run north/south through the project area. The "old town" portion of Waldport is located in the nearly level area south of the Alsea River. This area is a combination of residential, industrial and commercial properties. The topography rises steeply to the south of the downtown area to a wide level area at the top of the slope. Crestline Drive follows the north/south trending ridgeline. To the east of the ridgeline the topography drops steeply to Lint Slough, which flows north to Alsea Bay. Another steep hillside separates Lint Slough from McKinney Slough to the east.

Elevations range from 0 feet National Geodetic Vertical Datum (NGVD) to approximately 200 feet NGVD at the top of the ridges.

## 5.3 Hydrology

### 5.3.1 Hydrologic Features of the Waldport Study Area

The major hydrologic features of the project area are the Alsea River, Patterson Creek, Red River, Lint Slough and McKinney Slough. Minor hydrologic features include several intermittent drainages originating in the steep hillsides.

The Alsea River is a large drainage originating in the Coast Range to the east of the project area. The Alsea Bay is estuarine and supports a variety of marine life. It has a drainage area of 334 square miles.

Patterson Creek flows from the southwest side of the west ridge, under Highway 101, to the Pacific Ocean. It is divided into two main forks within the project area that converge within the Ocean Hills development. Patterson Creek is freshwater primarily, however an open connection to the Ocean may allow seawater to enter during major storms.

Red River is a tributary to Lint Slough. Three main tributaries of Red River originate along the west side of Crestline Drive and drain north to the Red River "ditch". This portion has been extensively culverted and ditched within the lower reaches and is currently slated for further modification due to transportation improvements. The Red River ditch parallels Starr Street and Highway 34 before draining to Lint Slough. The upper portions of the Red River tributaries are relatively undisturbed currently. The Red River was once used for the City's water supply.

Lint Slough flows north to the Alsea River. A tidegate is located near its mouth. An excavated channel parallels the west side of the slough. This channel was constructed by ODFW as a fish hatchery/rearing area. Its use has been discontinued. The portion of Lint Slough within the project area is tidally influenced and considered estuarine. McKinney Slough also flows north to the Alsea River and is considered estuarine. The project area bisects McKinney Slough to the north of Highway 34. Both McKinney and Lint Sloughs extend south out of the project area.

Most of the other drainages, with the exception of lower Red River, remain relatively undisturbed. This is due to their location at the base of steep hillsides which has prevented development and road crossings. Low lying areas within downtown Waldport and areas adjacent to the major creeks are mapped within the 100-year floodplain by the Federal Emergency Management Agency (FEMA).

Precipitation also contributes significantly to the study area hydrology, with an average annual rainfall of 71.5 inches. Total rainfall for 1998 between January and December was approximately 91 inches. Minor drainages, spring and seeps are also present in the study area; however, due to the steep topography and permeable soils, they are generally intermittent.

### 5.3.2 Hydrologic Basin Designation

The study area was divided into two primary hydrologic basins: Alsea River (ALS), and Pacific Ocean (PAC). Determination of the basins was based on topographic information, and observations of drainage patterns in the field. The watersheds and their sizes are listed in Table 1 on the following page.

**Table 1: Hydrologic Basins and Acreages for the City of Waldport Local Wetlands and Riparian Inventories**

| Hydrologic Basin | Basin Area (acres) |
|---|---|
| Pacific Ocean | 668.73 |
| Alsea River | 1,121.34 |
| **Total Project Acreage** | **1,790.07** |

The **Pacific** basin (PAC) contains lands to the east and west of Highway 101, south of the mouth of Alsea Bay. It includes Yaquina John Point and the north portion of Patterson Memorial State Park, as well as the Crestview Hills Golf Course, the Waldport Ranger Station, and residential areas along Range Road and Crestline Drive. In addition to Patterson Creek, the basin contains several smaller tributaries and intermittent drainages originating along the west flank of the hillside.

The **Alsea** River basin (ALS) occupies the northern and eastern portion of the study area. Land use within the basin is primarily residential and commercial, with some light industrial. This basin includes Red River, Lint Slough and McKinney Slough. Several smaller tributaries drain the steep hillsides.

### 5.3.3 Hydrologic Indicators

Direct indicators of hydrology observed during the inventory included soils saturated at or near the surface, inundation, and a shallow water table. Indirect indicators included oxidized rhizospheres with living roots, algal mats, drift lines, and wetland drainage patterns.

## 5.4 Soils

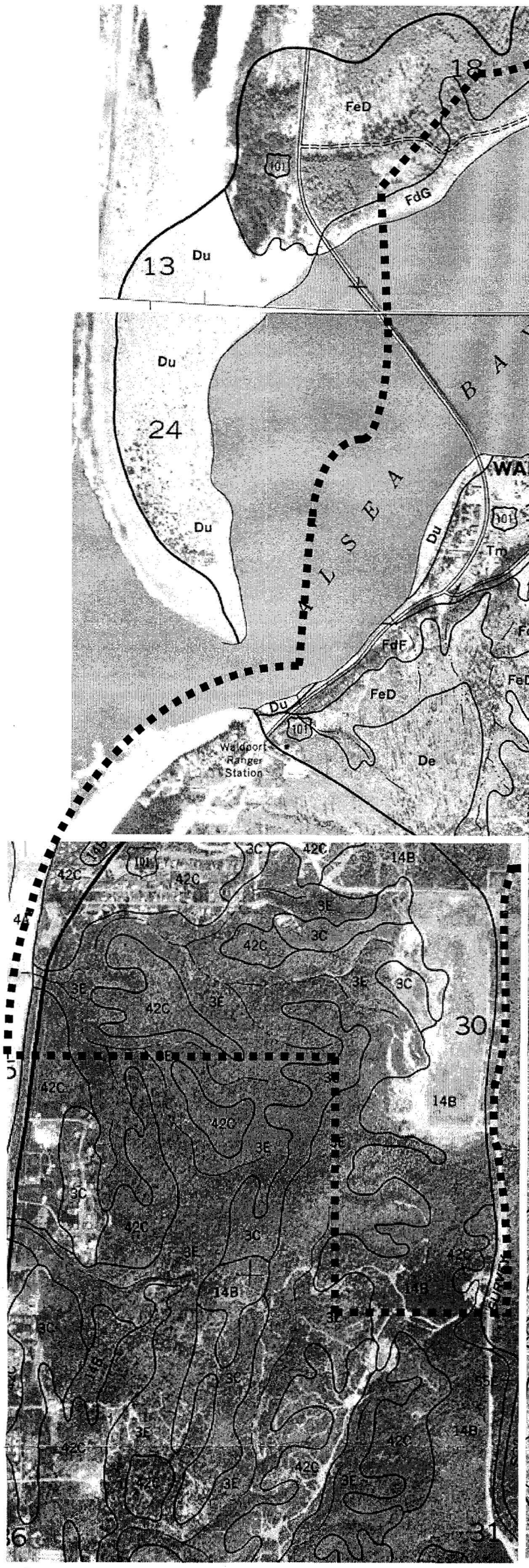
Table 2 lists the soils that have been mapped by the Natural Resources Conservation Service (NRCS; formerly the Soil Conservation Service) within the Waldport study area. Figure 2 is a copy of the soil surveys, showing mapped soils for the study area.

**Table 2. Soils Mapped Within the Waldport LWI Study Area**

| Map Unit | Soil Series | Hydric | Drainage Class |
|---|---|---|---|
| 3C, 3E | Bandon fine sandy loam | No | Well drained |
| 14B, De | Depoe loam | Yes | Poorly drained |
| 42C, 42E | Nelscott loam | No | Mod. well drained |
| 19E,Fd | Fendall gravelly clay loam | No | Well drained |
| FeD | Ferrelo loam | No | Well drained |
| Kp | Knappa silt loam | No | Well drained |
| Lt | Lint silty clay loam | No | Well drained |
| Tm | Tidal marsh | Yes | N/A |

**SOIL MAP UNITS**

| | | |
|---|---|---|
| 3C, 3E | = | Bandon fine sandy loam |
| 14B, De | = | Depoe loam |
| 42C, 42E | = | Nelscott loam |
| 19E, Fd | = | Fendall gravelly clay loam |
| FeD | = | Ferrelo loam |
| Kp | = | Knappa silt loam |
| Lt | = | Lint silty clay loam |
| Tm | = | Tidal marsh |

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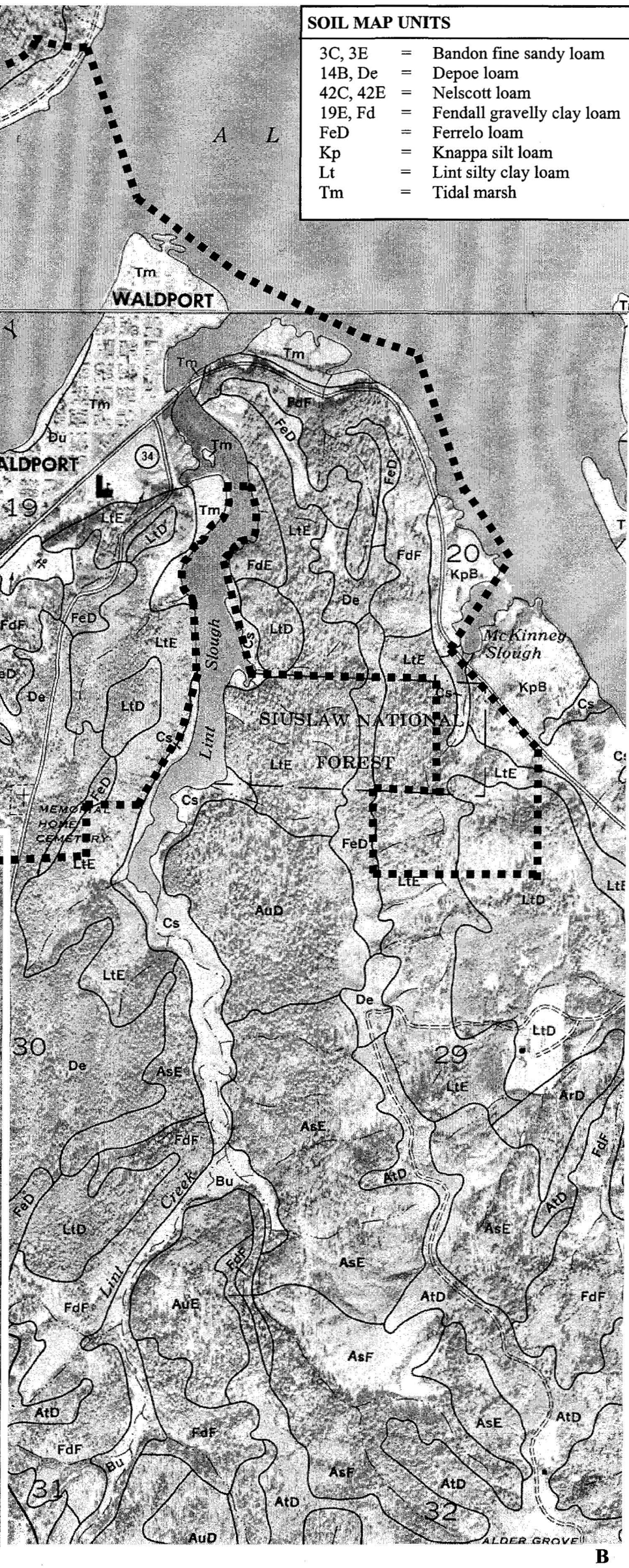


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Figure 2. Soil series for the Waldport Local Wetlands Inventory site in Waldport, Oregon (**A**: USDA, SCS, Alsea Area, Oregon, 1973; **B**: USDA, SCS, Lincoln County, Oregon 1997).

***Bandon fine sandy loam*** is a deep, well drained soil found on incised marine terraces. It is formed from marine and dune sands and has a cemented iron pan (ortstein) at depth. Typically the upper 5 inches is a dark grayish brown friable sandy loam. The next 7 inches is a dark reddish brown brittle sandy loam. From 12 to 30 inches is a dark reddish brown friable loam. From 30 to 43 inches is a strong brown extremely firm massive cemented ortstein. The soil is classified as a *coarse-loamy, mixed, isomesic, Typic Haplorthod.*

***Depoe loam*** is a shallow, poorly drained soil found in depressions on marine terraces. It is formed from weakly stratified marine sediments and has a shallow strongly cemented iron pan (ortstein). Typically the upper 4 inches is a very dark grayish brown fine friable loam. The next 5 inches is a friable dark gray sandy loam. From 9 to 16 inches is a hard friable massive grayish brown loam. From 16 to 48 inches is an extremely hard, extremely firm, massive strongly cemented brownish yellow fine sand. This ortstein has thin irregular dark red and yellowish red bands. The soil is classified as a *loamy, mixed, isomesic, ortstein & shallow Typic Duraquod.*

***Nelscott loam*** is a moderately deep, moderately well drained soil found on drainageways in marine terraces. It is formed from wind blown sediments deposited over stratified marine sediments and has an ortstein pan. Typically, the upper 14 inches is a dark brown and dark grayish brown loam. Below this, to a depth of 29 inches, is a brown mottled silty clay loam. From 29 to 36 inches is a light brownish gray mottled loamy fine sand. The ortstein about 12 inches thick below this is a variegated moderately cemented fine sand (grayish brown, yellowish brown, and reddish brown). The soil is classified as a *fine-loamy over sandy, mixed, isomesic, ortstein Typic Haplorthod.*

***Fendall gravelly clay loam*** is a moderately deep and moderately well drained soil found on sideslopes of hilly uplands. It is formed on colluvium weathered from shaley siltstone. Typically, the surface layer is a dark brown and very dark brown silt loam 16 inches thick. The upper 11 inches of the subsoil is a dark yellowish brown silty clay loam. The lower 11 inches of the subsoil is a dark yellowish brown clay. At a depth of about 38 inches is weathered fractured siltstone bedrock. The soil is classified as *a fine, mixed, isomesic, Andic Humitropept.*

***Ferrelo loam*** is a well drained soil found on slopes in marine terraces. It is formed from unconsolidated sandy sediments. Typically, the surface layer is 10 inches of dark brown loam and loamy fine sand. Below this is 8 inches of strong brown fine sandy loam. The substratum is a brown sandy loam. The soil is classified as a *coarse-loamy, mixed, isomesic, Typic Haplumbrept.*

***Knappa silt loam*** is a deep, well drained soil found on stream terraces. It is formed from silty alluvium of mixed origins. Typically, the surface layer is a very dark brown and very dark grayish brown silt loam about 23 inches thick. The upper part of the subsoil is a brown and dark yellowish brown silty clay loam about 31 inches thick. The lower portion of the subsoil to a depth of 60 inches is a yellowish brown silty clay loam. The soil is classified as a *fine-silty, mixed, isomesic, Typic Humitropept.*

***Lint silty clay loam*** is a deep, moderately well drained soil found on high dissected marine terraces. It is formed from eolian and alluvial silty materials of mixed origins. Typically, the surface layer is very dark brown and dark brown silty clay loam about 20 inches thick. The subsoil is dark brown and light yellowish brown silty clay loam about 25 inches thick. The substratum is a mottled light brownish gray to strong brown dense silt loam. The soil is classified as a *fine-silty, mixed, isomesic, Alic Fulvudand.*

***Tidal marsh*** consists of nearly level areas regularly inundated by tidal overflow. The soil materials are fine textured clayey sediments having no structure as a result of bioturbation.

A variety of soil types were sampled during field visits to the study area; surface features are described on data sheets in Appendix B. Hydric soil indicators observed during the survey included low chroma soils (both with and without redoximorphic features), and an aquic moisture regime in some locations.

## 5.5 Vegetation

### 5.5.1 Overview

The City of Waldport is located within the Sitka Spruce (*Picea sitchensis*) Forest Zone (as characterized by Franklin and Dyrness, 1973). This vegetation zone occupies a low-elevation strip along the immediate coastline, often only a few miles wide, subject to a relatively wet and mild climate. The zone is essentially a variant of the Western Hemlock (*Tsuga heterophylla*) Zone, distinguished largely by the presence of Sitka spruce, frequent summer fogs, and proximity to the ocean. The climate provides nearly ideal growing conditions, accounting for the high productivity of forest stands, as well as prolific growth in shrub and herb-dominated communities.

Common trees found in this region include Sitka spruce, western hemlock, western red cedar (*Thuja plicata*), Douglas fir (*Pseudotsuga menziesii*), and red alder (*Alnus rubra*). Sites disturbed through fire or logging may develop into stands of mixed conifers including spruce, hemlock and Douglas fir. However, red alder may overtop the regenerating conifers and develop into nearly pure alder forests. Dense shrub communities may also form on disturbed sites, often in conjunction with red alder; the dense understory may delay conifer colonization almost indefinitely. Thicket-forming shrubs common in the region include salmonberry (*Rubus spectabilis*), salal (*Gaultheria shallon*), and evergreen huckleberry (*Vaccinium ovatum*). Further discussion of coastal plant communities within the Sitka Spruce Zone can be found in *Natural Vegetation of Oregon and Washington* (Franklin and Dyrness 1973).

### 5.5.2 Local Vegetation Communities

Generalized plant communities encountered within the City of Waldport study area include upland broadleaf-scrub/shrub thicket, upland coniferous forest, upland mixed coniferous/deciduous forest, developed-urban, wetland, and riparian. Wetland communities are further distinguished as freshwater (palustrine emergent, palustrine scrub-shrub, and palustrine forested; and riverine systems), and brackish (estuarine emergent, estuarine scrub-

shrub, and estuarine forested) following the Cowardin classification system developed for the US Fish and Wildlife Service (Cowardin, et. al., 1979). Each of the above communities is described in the sections below. A list of plant species known or expected to be in the area is included in Appendix F.

***Upland Broadleaf Scrub/Shrub Thicket***

Shrub communities are typically associated with relatively recent or periodically occurring disturbances (i.e. following logging, grading, and fire; or subject to flooding). Dominant species may include saplings of regenerating conifers such as Sitka spruce or Douglas fir, deciduous trees such as red alder, and shrubs such as salmonberry, thimbleberry (*Rubus parviflorus*), salal, vine maple (*Acer circinatum*), evergreen huckleberry, rhododendron (*Rhododendron macrophyllum*), and blackberries (*Rubus* spp.). Introduced Scots' broom (*Cytisus scoparius*) is also a rapid colonizer in disturbed areas. Herbaceous species are common in cleared openings, often being the first plants to colonize disturbed ground.

***Upland Coniferous Forest***

The dominant species in the coniferous overstory are Douglas fir, Sitka spruce, western hemlock, and western red cedar. Sitka spruce is more common closer to the ocean, with the other species becoming more dominant further inland or in managed forests. Understory plants vary greatly with the density of the tree canopy. A closed canopy forest tends to suppress understory species diversity and density, though species such as false lily-of-the-valley (*Maianthemum dilatatum*) and sword fern *(Polystichum munitum*) are commonly encountered. Openings in the canopy allow greater shrub development, with salmonberry, salal, rhododendron, and evergreen huckleberry often evident.

***Upland Mixed Coniferous-Deciduous Forest***

The conifer species mentioned above may be codominant with deciduous hardwoods such as red alder, bigleaf maple, and willows. Shrub understories are often well-developed due to a more open tree overstory for much of the year. Common shrubs include salmonberry, red elderberry (*Sambucus racemosa*), vine maple, evergreen huckleberry, salal, and cascara (*Rhamnus purshiana*).

***Developed-Urban***

Plant communities in large portions of the City of Waldport study area have been influenced by human activities for most of this century. The study area includes heavily developed commercial areas and single-family residential subdivisions, as well as widely dispersed residential to undisturbed natural areas. Residences, businesses, parking areas, roads, and sidewalks all represent unvegetated or landscaped areas. Vegetation is often of horticultural origin or weedy in these areas. The fringes of these developed areas may have been subject to disturbance as well, often allowed to regenerate as red alder, salmonberry, or blackberry thickets. More frequent disturbance may maintain areas as open spaces dominated by weedy grasses and forbs.

### *Wetlands*

Wetland areas are generally transitional between upland or riparian areas and truly aquatic sites with permanently open water. Open water may or may not be present, in which case the wetland can occupy a position where the groundwater table comes close to the surface for an extended period at some time during the growing season. Brackish, or estuarine wetlands are present along the tidally influenced areas of the Alsea River, Lint Slough and McKinney Slough.

Palustrine forested wetlands (PFO) in the area are dominated primarily by an overstory of Sitka spruce, western hemlock, western red cedar, and red alder, with the shrub layer often dominated by salmonberry. Palustrine scrub/shrub (PSS) wetlands typically include sapling red alder, salmonberry, willows (*Salix* spp.), four-line honeysuckle (*Lonicera involucrata)*, Douglas' spiraea (*Spiraea douglasii*), and western crabapple (*Pyrus fusca*). The herb understory though typically sparse, often includes skunk cabbage (*Lysichitum americanum*), lady fern (*Athyrium filix-femina*), and slough sedge (*Carex obnupta*). Palustrine emergent wetlands (PEM) are dominated by herbaceous species such as slough sedge, water parsley *(Oenanthe sarmentosa*), rushes (*Juncus* spp.), and creeping buttercup (*Ranunculus repens*).

Palustrine emergent wetlands which have been disturbed by activities such as logging tend to be dominated by grasses such as reed canarygrass (*Phalaris arundinacea*), colonial bentgrass (*Agrostis tenuis*), common velvetgrass (*Holcus lanatus*), creeping buttercup (*Ranunculus repens*), and soft rush *(Juncus effusus*).

Estuarine wetlands along the Alsea River and the sloughs are primarily composed of emergent species. These estuarine emergent wetlands at lower elevations are influenced by the combination of high salinity and daily tidal inundation. These factors produce a pronounced zonation by species. Common emergents in these brackish areas include Lyngby's sedge (*Carex lyngbyei*), tufted hairgrass (*Deschampsia cespitosa*), gumweed (*Grindelia integrifolia*), Baltic rush (*Juncus balticus*), and Pacific silverweed (*Potentilla anserina).*

### *Riparian*

Riparian forests are often similar to the upland mixed evergreen-deciduous forests, though species preferring wetter sites may be more common. Sitka spruce, Douglas fir, and western hemlock may codominate with red alder and bigleaf maple. The shrub layer is often quite dense, especially within a red alder or otherwise more open stand, and may consist of such species as salmonberry, vine maple, salal, and evergreen huckleberry. Herbaceous species may dominate the understory under a closed evergreen canopy, with lady fern, sword fern, or false lily-of-the-valley often present. Riparian communities are often transitional to wetland communities.

### 5.5.3 Wetland and Upland Indicator Species

Species lists of commonly encountered plants, along with their status as indicators of wetland conditions, have been prepared for all regions of the country by the USFWS (1988). The status of a particular plant, as discussed in Section 2.0, is the probability of that plant occurring in a wetland. Table 3 summarizes the wetland indicator codes.

**Table 3. Wetland Indicator Codes and Status**

| Indicator Code | Status |
|---|---|
| **OBL** | Obligate wetland. Estimated to occur almost exclusively in wetlands (>99%) |
| **FACW** | Facultative wetland. Estimated to occur 67-99% of the time in wetlands. |
| **FAC** | Facultative. Occur equally in wetlands and non-wetlands (34-66%). |
| **FACU** | Facultative upland. Usually occur in non-wetlands (67-99%). |
| **UPL** | Obligate upland. Estimated to occur almost exclusively in non-wetlands (>99%). If a species is not assigned to one of the four groups described above it is assumed to be obligate upland. |
| **NI** | Has not yet received a wetland indicator status, but is probably not obligate upland. |

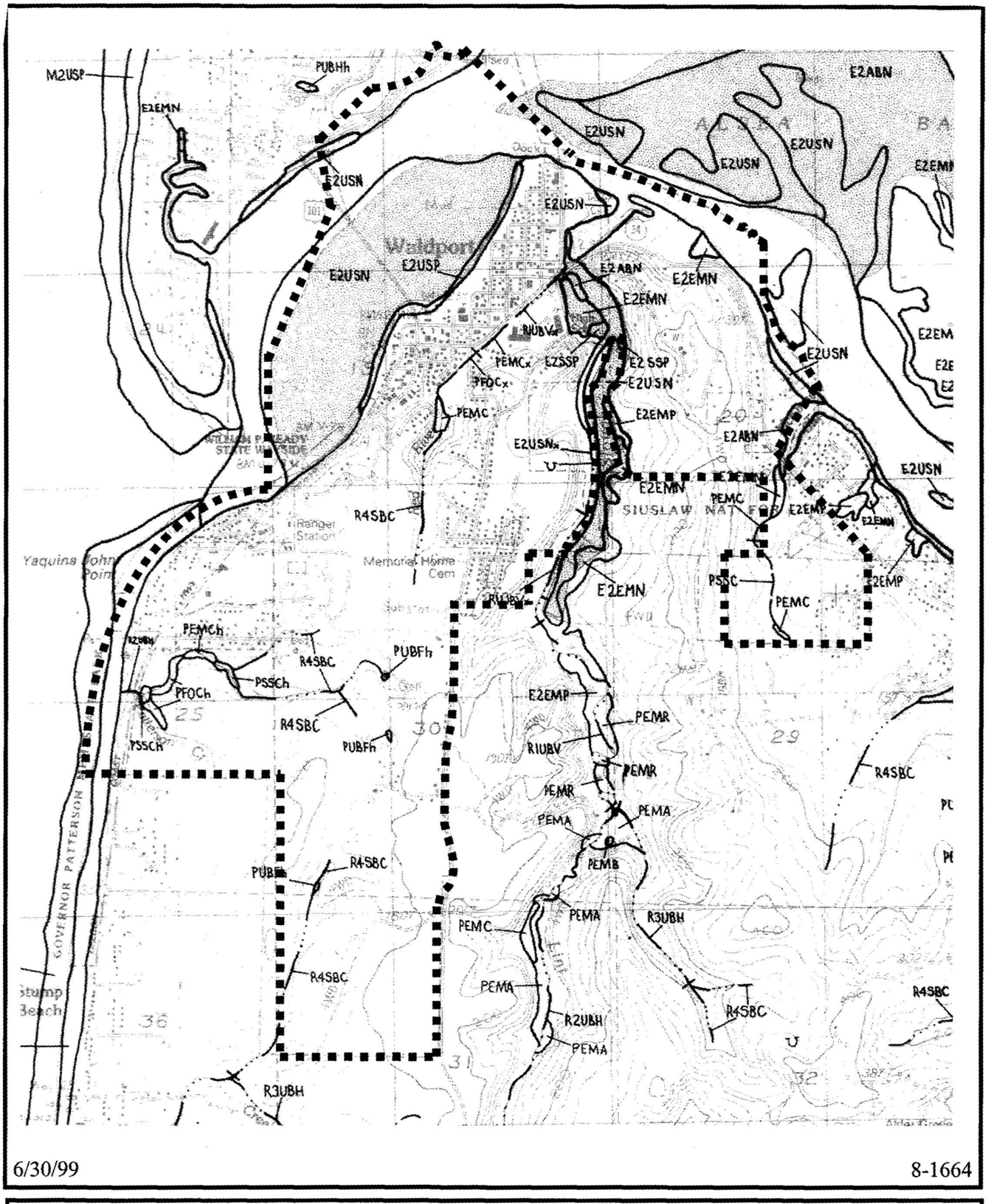
Many plants are found in transitional areas between wetlands and uplands. These areas are usually characterized by flat to gradually sloping terrain where the species composition may not reflect true wetland boundaries. In such areas, a species with a status of FACU may extend into the wetland areas, just as FACW species may also be present in upland areas.

A non-comprehensive listing of plant species encountered or expected within the project area, and their wetland indicator status, is included in Appendix F.

# 6.0 LWI DISCUSSION AND CONCLUSIONS

## 6.1 U.S. Fish & Wildlife Service National Wetland Inventory Areas

The U.S. Fish and Wildlife Service, as part of the National Wetlands Inventory (NWI) program, has mapped wetland in the study area (Figure 3). 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.




6/30/99 8-1664

Figure 3. National Wetlands Inventory information for the Waldport Local Wetlands Inventory site in Waldport, Oregon (USFWS, Waldport quadrangle, 1995).

## 6.2 Local Wetlands Inventory Results

### 6.2.1 Wetland Acreage and Distribution

A total of 38 wetland units were identified during the LWI with a total acreage of approximately 72.99 acres (Figures 4A-4C). The basins are approximately equal in number of wetlands, however the Alsea basin contains more than three times the wetland acreage due to the large wetlands associated with the sloughs and Red River. Pacific basin has 20 wetlands in 15.57 acres and Alsea basin has 18 wetlands in 57.61 acres. Table 4 summarizes the wetland acreage and distribution in the study area.

**Table 4. Wetland Areas Within Each Basin for the Waldport LWI**

| Watershed | Area (acres) | Wetland (acres) | Percent of basin that is wetland |
|---|---|---|---|
| Pacific | 668.73 | 15.57 | 2% |
| Alsea River | 1,121.34 | 57.61 | 5% |
| **Total Project Acreage** | **1,790.07** | **72.99** | |

### 6.2.2 Wetland Classification

Each wetland was classified according to the Cowardin system. Estuarine wetlands are the dominant (64%) wetland type in the study area, totaling 46.80 acres. These estuarine wetlands are dominated by emergent vegetation. Palustrine forested and palustrine scrub shrub wetlands are similar in distribution, with forested areas totaling 9.29 acres (13%) and scrub shrub totaling 8.50 acres (12%). Palustrine emergent wetlands total 7.22 acres (10%), and palustrine unconsolidated bottom totals 1.37 acres (2%). Many of the wetlands are connected by narrow intermittent drainages which would be classified as riverine (R) according to the Cowardin system.

Tables 5, 6, and 7 summarize the wetland classifications for the Waldport LWI study area. Table 5 is a summary of the distribution of wetland classes within each basin. Table 6 summarizes the wetland classes in the project area. Table 7 (pages 25-27) is a classification and acreage for each wetland.

**Table 5. Types of Wetlands Within Each Basin for the Waldport LWI**

| Wetland Classification | Pacific | Alsea River |
|---|---|---|
| Palustrine forested | 4.82 | 4.47 |
| Palustrine scrub shrub | 6.86 | 1.64 |
| Palustrine emergent | 2.52 | 4.70 |
| Palustrine unconsolidated bottom | 1.37 | 0 |
| Intertidal estuarine | 0 | 46.80 |

**Table 6. Types of Wetlands Within the Waldport LWI Study Area**

| Wetland Classification | Area (acres) | Percent of Wetlands |
|---|---|---|
| Palustrine forested (PFO) | 9.29 | 13% |
| Palustrine scrub-shrub (PSS) | 8.50 | 12% |
| Palustrine emergent (PEM) | 7.22 | 10% |
| Palustrine unconsolidated bottom (PUB) | 1.37 | 2% |
| Intertidal estuarine (E2) | 46.80 | 64% |
| **Total** | **72.99** | **100%** |

**Table 7. Cowardin Classification of all Wetlands Identified in the Waldport LWI**

| Wetland Code | Cowardin Classification | | | | | Total Acreage | Waters of the State |
|---|---|---|---|---|---|---|---|
| | PFO | PSS | PEM | PUB | E2 | | R3/R4 |
| PAC-1A | 3.76 | 1.98 | | | | 5.74 | |
| PAC-1B | | 1.13 | 0.38 | | | 1.51 | |
| PAC-1C | | | 0.17 | | | 0.17 | 0.07 |
| PAC-1D | | 0.96 | | | | 0.96 | |
| PAC-1E | | 0.37 | | | | 0.37 | |
| PAC-1F | | 0.09 | | | | 0.09 | 0.02 |
| PAC-1G | | | 0.29 | | | 0.29 | 0.05 |
| PAC-1H | | | 0.28 | | | 0.28 | |
| PAC-1J | | | | 1.06 | | 1.06 | |
| PAC-1K | | 0.13 | 0.14 | | | 0.27 | |
| PAC-1L | | 0.14 | 0.17 | 0.31 | | 0.62 | |
| PAC-1M | | | 0.08 | | | 0.08 | |
| PAC-2A | 0.70 | | 0.18 | | | 0.88 | |
| PAC-2B | | 0.28 | | | | 0.28 | |
| PAC-2C | | 0.13 | | | | 0.13 | |
| PAC-3A | | 0.10 | | | | 0.10 | |
| PAC-3B | | | | | | 0.00 | 0.04 |
| PAC-4 | | | 0.12 | | | 0.12 | 0.10 |
| PAC-5A | 0.11 | 0.80 | | | | 0.72 | |
| PAC-5B | 0.25 | 0.75 | 0.71 | | | 1.71 | |
| ALS-1A | 0.23 | | | | | 0.23 | 0.02 |
| ALS-1B | | | | | | 0.00 | 0.01 |
| ALS-2A | 3.05 | | 1.02 | | | 4.07 | 0.07 |
| ALS-2B | 0.48 | | | | | 0.48 | |
| ALS-3 | | | 0.33 | | | 0.33 | |
| ALS-4A | | | 0.56 | | | 0.56 | |

**Table 7, continued**

| Wetland Code | Cowardin Classification | | | | | Total Acreage | Waters of the State |
|---|---|---|---|---|---|---|---|
| | PFO | PSS | PEM | PUB | E2 | | R3/R4 |
| ALS-4B | | | 0.49 | | | 0.49 | |
| ALS-5 | | | 0.83 | | | 0.83 | |
| ALS-6 | | 0.11 | | | | 0.11 | |
| ALS-7 | 0.16 | | | | | 0.16 | |
| ALS-8 | | | 0.67 | | | 0.67 | |
| ALS-9 | 0.55 | | | | | 0.55 | |
| ALS-10A | | 1.53 | 0.80 | | | 2.33 | |
| ALS-10B | | | | | 8.08 | 8.08 | |
| ALS-11A | | | | | 2.63 | 2.63 | |
| ALS-11B | | | | | 0.75 | 0.75 | |
| ALS-12A | | | | | 33.78 | 33.78 | |
| ALS-12B | | | | | 1.56 | 1.56 | |
| TOTAL | 9.29 | 8.50 | 7.22 | 1.37 | 46.80 | 72.99 | 0.38 |

## 6.3 Oregon Freshwater Wetland Assessment Methodology Results

### 6.3.1 Wetland Quality Assessment

An assessment of the quality for each of the Goal 5 and Goal 17 wetlands identified through the inventory was conducted using the *Oregon Freshwater Assessment Methodology* (OFWAM) (Roth et al, April 1996). The five Goal 16 (Estuarine) wetlands were not assessed with OFWAM. OFWAM assesses 6 functions and 3 conditions, as described in Section 3.3.1. Appendix C contains all of the results for each of the 33 wetlands assessed by the methodology along with summary sheets of the functions and conditions assessed by the methodology and the rationale for the results. Table 8 summarizes the wetlands within each of the three Statewide Planning Goal areas.

**Table 8. Summary of Wetlands Within Goal 5, Goal 17, and Goal 16**

| GOAL 5 | | |
|---|---|---|
| PAC-1A | PAC-1J | PAC-3B |
| PAC-1B | PAC-1K | PAC-4 |
| PAC-1C | PAC-1L | ALS-1A |
| PAC-1D | PAC-1M | ALS-1B |
| PAC-1E | PAC-2A | ALS-2A |
| PAC-1F | PAC-2B | ALS-2B |
| PAC-1G | PAC-2C | ALS-3 |
| PAC-1H | PAC-3A | ALS-10A |

**Table 8, continued**

| GOAL 17 | | |
|---|---|---|
| PAC-5A | ALS-4B | ALS-7 |
| PAC-5B | ALS-5 | ALS-8 |
| ALS-4A | ALS-6 | ALS-9 |
| **GOAL 16** | | |
| ALS10B | ALS-11A | ALS-12A |
| | ALS-11B | ALS-12B |

Twenty-four percent (24%) of the assessed wetlands (i.e. not including Goal 16 wetlands) provided diverse wildlife habitat and the other 76% provided wildlife habitat for some species. Twenty-seven percent (27%) of the wetlands were assessed with fish habitat function intact due to perennial surface water or connection to surface water. If the wetlands lacked perennial surface water or were upstream from fish barriers, they were not assessed for fish habitat. The remaining 19 wetlands were assessed with impacted or degraded fish habitat due to lack of shade, or channel modifications.

The water quality function was assessed as intact in 45% of the wetlands and impacted or degraded in 55% of the wetlands. The generally high water quality function is due to extensive floodplain wetlands with good vegetation cover within the Urban Growth Boundary of Waldport.

Hydrologic control was generally assessed as intact in 51% of the wetlands due to landscape position and downstream development. The remaining 49% were assessed as impacted or degraded, due to unrestricted outflow and a dominance of emergent vegetation.

All the wetlands were considered to be potentially sensitive to future impacts due to existing or zoned development in adjacent lands. Wetlands were given a low or medium rating for educational or recreational opportunities in a majority of the wetlands due to their location on private lands, lack of public access or developed paths, and safety concerns associated with public access and physically-challenged access. Aesthetic quality of the wetlands was varied according to presence of major roads and noisy traffic, adjacent development, and number of Cowardin classes in the wetland. Forty-eight percent (48%), however, were considered to be moderately pleasing, aesthetically.

Although OFWAM provides qualitative information on the relative value of wetlands and does not have a numerical ranking, numbers were assigned to the assessment criteria in order to easily compare the results. A number 1 was assigned to wetlands receiving the highest function or condition result (e.g. intact, diverse), a number 3 was assigned to the wetlands receiving the lowest result (lost or not present, not appropriate), and a number 2 was assigned to the results which do not fit the other criteria (potential, impacted or degraded). This system is summarized in Table 9 (next page).

Table 10 (page 28) shows the results of the quality assessment conducted on all of the wetlands identified through the inventory. Some functions or conditions were not applicable

to certain wetlands. For instance the methodology states that if a wetland receives an assessment of "diverse wildlife habitat" then the enhancement potential assessment is not applicable. In addition, if there was no likelihood of fish habitat in the wetland, the fish habitat assessment was not completed.

**Table 9. Key to the Oregon Freshwater Wetland Assessment Methodology Numerical Ranking**

| | |
|---|---|
| **Wildlife Habitat** | 1. *Wetland provides diverse wildlife habitat*<br>2. *Wetland provides habitat for some wildlife species*<br>3. *Wetland does not provide wildlife habitat* |
| **Fish Habitat** | 1. *Wetland's fish habitat function is intact*<br>2. *Wetland's fish habitat function is impacted or degraded*<br>3. *Wetland's fish habitat function is lost or not present* |
| **Water Quality** | 1. *Wetland's water-quality function is intact*<br>2. *Wetland's water-quality function is impacted or degraded*<br>3. *Wetland's water-quality function is lost or not present* |
| **Hydrologic Control** | 1. *Wetland's hydrologic control function is intact*<br>2. *Wetland's hydrologic control function is impacted or degraded*<br>3. *Wetland's hydrologic control function is lost or not present* |
| **Sensitivity to Impact** | *1. Wetland is sensitive to future impacts*<br>*2. Wetland is potentially sensitive to future impacts*<br>*3. Wetland is not sensitive to future impacts* |
| **Enhancement Potential** | 1. *Wetland has high enhancement potential*<br>2. *Wetland has moderate potential for enhancement*<br>3. *Wetland has little enhancement potential* |
| **Education** | 1. *Wetland has educational uses*<br>2. *Wetland has potential for educational use*<br>3. *Wetland is not appropriate for educational use* |
| **Recreation** | 1. *Wetland provides recreational opportunities*<br>2. *Wetland has the potential to provide recreational activities*<br>3. *Wetland is not appropriate for or does not provide recreational opportunities* |
| **Aesthetic Quality** | 1. *Wetland is considered to be pleasing*<br>2. *Wetland is considered to be moderately pleasing*<br>3. *Wetland is not pleasing* |

**Table 10. Oregon Freshwater Wetland Assessment Methodology Numerical Ranking Results for the Waldport Local Wetlands Inventory**

| Wetland Code | Wildlife Habitat | Fish Habitat | Water Quality | Hydrologic Control | Sensitivity to Impact | Enhancement Potential | Education | Recreation | Aesthetic Quality | Size (acres) |
|---|---|---|---|---|---|---|---|---|---|---|
| PAC-1A | 1 | 1 | 1 | 1 | 2 | N/A | 3 | 3 | 1 | 5.63 |
| PAC-1B | 1 | 1 | 1 | 1 | 2 | N/A | 3 | 3 | 1 | 1.51 |
| PAC-1C | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | 2 | 0.17 |
| PAC-1D | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 3 | 1 | 0.07 |
| PAC-1E | 2 | NA | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 0.37 |
| PAC-1F | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | 1 | 0.09 |
| PAC-1G | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 2 | 0.29 |
| PAC-1H | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 0.28 |
| PAC-1J | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1.06 |
| PAC-1K | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 0.27 |
| PAC-1L | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 0.62 |
| PAC-1M | 2 | NA | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 0.08 |
| PAC-2A | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 2 | 0.88 |
| PAC-2B | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 1 | 0.28 |
| PAC-2C | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 1 | 0.13 |
| PAC-3A | 2 | NA | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 0.10 |
| PAC-3B | 2 | NA | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 0.04 |
| PAC-4 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 0.12 |
| PAC-5A | 1 | 1 | 1 | 1 | 2 | NA | 3 | 3 | 2 | 0.72 |
| PAC-5B | 1 | 1 | 1 | 1 | 2 | NA | 3 | 3 | 2 | 1.71 |
| ALS-1A | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 0.23 |
| ALS-1B | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 0.01 |
| ALS-2A | 1 | 1 | 1 | 1 | 2 | NA | 3 | 3 | 1 | 4.07 |
| ALS-2B | 1 | 1 | 2 | 1 | 2 | NA | 3 | 3 | 2 | 0.48 |
| ALS-3 | 1 | 1 | 2 | 1 | 2 | NA | 3 | 3 | 2 | 0.33 |
| ALS-4A | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 0.56 |
| ALS-4B | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 0.49 |
| ALS-5 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | 3 | 0.83 |
| ALS-6 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 0.11 |
| ALS-7 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 0.16 |
| ALS-8 | 2 | NA | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 0.67 |
| ALS-9 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 0.55 |
| ALS-10A | 1 | 1 | 1 | 1 | 2 | NA | 3 | 3 | 1 | 2.33 |

### 6.3.2 Wetlands of Special Interest for Protection

Each of the wetlands were assessed according to the ten questions in this section of OFWAM. These questions are regarding the presence of Federal or State listed threatened, endangered or sensitive species, existing management plans, conservation plans, protected mitigation areas, critical habitat, wetland reserve areas and the presence of uncommon wetland plant communities in Oregon.

These questions were answered "no" for all the wetlands. Therefore, none of the wetlands in the study area qualify as "wetlands of special interest for protection."

# 7.0 SIGNIFICANT WETLANDS DETERMINATION

## 7.1 Distinction between Goals 5, 16 and 17 Areas

OFWAM was applied to all Goal 5 and Goal 17 wetlands within the project area. Wetlands within the Goal 17 area, however, did not have the Locally Significant Wetland criteria applied, as those criteria only apply to Goal 5 wetlands. Instead, Significant Wetlands under Goal 17 are known as major marshes and are designated differently, as described in Section 7.4.

Statewide Planning Goal 17 (Coastal Shorelands) defines the Coastal Shorelands Planning Area (CSPA) as: All lands west of the Oregon Coast Highway (Highway 101) and; all lands within an area defined by a line measured horizontally 1,000 feet from the shoreline of estuaries and 500 feet from the shoreline of coastal lakes (DLCD, 1996).

For the Waldport LWI, the CSPA includes all lands seaward from Highway 101 (i.e. west of Highway 101), and extends 1,000 feet from the edge of the Alsea River, Lint Slough, and lower McKinney Slough, which are all tidally influenced coastal waters.

In addition, five wetlands (ALS-10B, ALS-11A, ALS-11B, ALS-12A, ALS-12B) in the project area are designated Estuarine Resources under Goal 16 and in the local Comprehensive Plan. As estuarine resources, OFWAM was not applied to these wetlands.

## 7.2 Goal 5 Locally Significant Wetlands Criteria

On September 1, 1996, the Land Conservation and Development Commission adopted a revised Statewide Planning Goal 5. Goal 5 is the planning goal for natural resources, scenic and historic areas, and open spaces. The goal requires local jurisdictions to inventory the natural resources covered under the goal, determine the significance of these resources, and develop plans to achieve the goal. In other words, local jurisdictions must adopt land use ordinances regulating development in and around significant areas.

Local jurisdictions determining significant wetlands must use the criteria recently adopted by the Oregon Division of State Lands (ORS 197.279(3)(b)). This criteria identifies *Locally Significant Wetlands.* The significance criteria is divided into three sections, as shown in Table 11.

**Table 11. Criteria for Determining Goal 5 Locally Significant Wetlands**

| |
|---|
| ***Exclusions*: A wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** |
| **1** Is this wetland artificially created entirely from upland and:<br>**a.** created for the purpose of controlling, storing, or maintaining storm water<br>**b.** is used for active surface mining or as a log pond<br>**c.** is a ditch without a free and open connection to natural waters of the state<br>**d.** is less than 1 acre and created unintentionally from irrigation or construction<br>**e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard<br>**2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 |
| ***Mandatory Locally Significant Wetland Criteria*: A wetland is locally significant if "Yes" is the answer to any of the criteria below.** |
| **1** Does the wetland provide *diverse wildlife habitat*?<br>**2** Is the wetland's *fish habitat function intact*?<br>**3** Is the wetland's *water quality function intact*?<br>**4** Is the wetland's *hydrologic control function intact*?<br>**5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded*?<br>**6** Does the wetland contain a rare plant community?<br>**7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?<br>**8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded*? |
| ***Optional Locally Significant Wetland Criteria*: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** |
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function*.<br>**2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses*? |

## 7.3 Applying Significant Wetland Criteria to the LWI Study Area

### 7.3.1 Goal 5 Significant Wetlands

The Locally Significant Wetlands criteria were applied to all Goal 5 wetlands. Of these 25 wetlands, 17 satisfied the criteria for significant wetlands. The results of applying the criteria are included in Appendix D. These wetlands are shown in Table 12.

**Table 12. Goal 5 Wetlands and Locally Significant Wetlands in the Waldport LWI**

| GOAL 5 | | |
|---|---|---|
| **PAC-1A*** | PAC-1J | PAC-3B |
| **PAC-1B*** | **PAC-1K*** | PAC-4 |
| **PAC-1C*** | PAC-1L | **ALS-1A*** |
| **PAC-1D*** | PAC-1M | ALS-1B |
| **PAC-1E*** | **PAC-2A*** | **ALS-2A*** |
| **PAC-1F*** | **PAC-2B*** | **ALS-2B*** |
| **PAC-1G*** | **PAC-2C*** | **ALS-3*** |
| **PAC-1H*** | PAC-3A | **ALS-10A*** |

*** Locally Significant Wetlands**

Some of the wetlands met the criteria for significance because of diverse wildlife, intact fish habitat function, or presence of anadromous fish. Others met the criteria for water quality or hydrologic function because of hydrologic connection to other wetlands or waters of the state, adjacent or downstream development, or a high degree of wetland vegetation cover. Although other wetlands within the Goal 5 area are relatively valuable for some functions, they do not satisfy the significant wetlands criteria.

## 7.4 Goal 17 Significant Wetlands (Major Marsh) Criteria

Significant wetlands under Goal 17 are known as major marshes. Unlike Goal 5, Goal 17 does not define or provide criteria for designating major marshes. The only reference to major marshes in the Goal's *Identification of Coastal Shorelands* section, is "Areas of significant shoreland and wetland biological habitats whose habitat quality is primarily derived from or related to the association with coastal water areas." The term "major marsh" is peculiar to Goal 17 and appears to not be used elsewhere in planning or wetland science.

Unlike estuarine wetlands, wetlands within the Goal 17 planning area originate principally from freshwater. Although they are located along the coast and derive much of their character from this landscape position, they are nevertheless similar to wetlands within the Goal 5 planning area. For this reason, the quality of wetlands were assessed in both the Goal 5 and the Goal 17 planning area using OFWAM.

Due to the similar nature of wetlands in the Goal 5 and the Goal 17 planning areas and the fact that all of the wetlands were assessed using OFWAM, PHS found it appropriate to base the Goal 17 major marsh criteria on the Goal 5 significant wetland criteria. The criteria has a

number of exclusions, including if the wetland has been identified as a dredge spoils site, a water-dependent use, or designated on the Urban Renewal Plan for the City. Wetlands already designated as one of these three uses are already protected by the City of Waldport for that particular use.

The Goal 17 criteria are shown in Table 13. Appendix D shows the results of applying the criteria for Goal 17 wetlands.

**Table 13. Criteria for Determining Major Marshes Within the Goal 17 Planning Area of Waldport**

| |
|---|
| ***Exclusions*: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** |
| **1** Is this wetland artificially created entirely from upland and:<br>**a.** created for the purpose of controlling, storing, or maintaining storm water<br>**b.** is used for active surface mining or as a log pond<br>**c.** is a ditch without a free and open connection to natural waters of the state<br>**d.** is less than 1 acre and created unintentionally from irrigation or construction<br>**e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? |
| **4** Is the wetland or a portion of the wetland designated as a water dependent use in the comprehensive plan? |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? |
| ***Goal 17 Significant Wetland (Major Marsh) Criteria*: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** |
| **1** Does the wetland provide *diverse wildlife habitat*? |
| **2** Is the wetland's *fish habitat function intact*? |
| **3** Is the wetland's *water quality function intact*? |
| **4** Is the wetland's *hydrologic control function intact and is the wetland within the 100-year floodplain*? |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded*? |
| **6** Does the wetland contain a rare plant community? |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? |
| **8** Does the wetland have a direct surface water connection to the Alsea River, Lint Slough, McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) or is the wetland mapped as a significant habitat site on the Oregon Estuary Plan? |

As with Goal 5, the Goal 17 criteria for determining significance is not based on size. The committee that created the Goal 5 significance criteria determined that even relatively small wetlands might provide an important (or major) function in their particular landscape position. For example, a small wetland in an urban area may provide habitat for a rare, threatened, or endangered species. For this reason, PHS did not add the size of the wetland as one of the significance criteria. Therefore, we saw the term "major marsh" referring to the importance of the wetland and not necessarily to its size.

### 7.4.1. Goal 17 Major Marshes

The results of applying the criteria to each of the wetlands in the Goal 17 Coastal Shorelands Planning area are included in Table 14 below. A wetland satisfying the criteria is designated as a major marsh.

**Table 14. Goal 17 Wetlands and Major Marshes in the Waldport LWI**

| GOAL 17 | | |
|---|---|---|
| **PAC-5A*** | ALS-4B | ALS-7 |
| **PAC-5B*** | **ALS-5*** | ALS-8 |
| ALS-4A | ALS-6 | **ALS-9*** |

*** Major Marsh**

# 8.0 RIPARIAN INVENTORY RESULTS

## 8.1 Location, Width and Quality of Riparian Areas

The *Urban Riparian Inventory and Assessment Guide* (Riparian Guide) (PHS 1998) was used to identify the width of riparian areas within the project area. The Riparian Guide is a method of determining the width of riparian areas adjacent to wetlands, creeks, and lakes (water resources). The Riparian Guide includes a riparian function assessment, which evaluates the ability of the riparian area to provide water quality, flood management, thermal regulation, and wildlife habitat functions. The results indicate whether the functional integrity of each reach is high, medium, or low. The widths, lengths and acreage of the riparian areas are listed in Table 15 (next page).

## 8.2 Riparian Acreage and Distribution

Thirty-one (31) riparian assessments were conducted in the project area associated with creeks, drainages, and the sloughs. Each riparian area was assigned a code and a modifier for right or left side (e.g. R-2L, R-2R). A data sheet was compiled which documents the existing riparian characteristics and establishes the riparian width based on potential tree height (PTH) and actual site conditions (Appendix E). The majority of the assessments were on-site observation. Off-site assessments were based on observation from an off-site vantage point or review of maps and aerial photos.

Potential tree heights were generally based on either Sitka spruce (120-foot PTH), or red alder (65-foot PTH). Riparian areas on steep slopes were generally forested or potentially forested with the coniferous trees. Riparian areas in flatter topographic areas were generally dominated by early successional trees such as red alder or willow. Figures 5A-5C show the location of the riparian assessments, the riparian reaches, and the width of the riparian areas.

**Table 15. Riparian Corridors and Their Widths for the Waldport Riparian Inventory**

| RIPARIAN AREA CODE | Potential Tree Height (PTH) | Actual Riparian Inventory width (ft) | Actual Riparian Inventory width (ft) |
|---|---|---|---|
| | | LEFT | RIGHT |
| R-1 | 120 | 120 | 120 |
| R-2 | 120 | 90-120 | 30-100 |
| R-3 | 120 | 100 | 120 |
| R-4 | 120 | 120 | 30 |
| R-5 | 120 | 120 | 120 |
| R-6 | 120 | 50 | 120 |
| R-7 | 120 | 120 | 120 |
| R-8 | 120 | 120 | 120 |
| R-9 | 120 | 120 | 120 |
| R-10 | 120 | 120 | 120 |
| R-11 | 50 | 20 | 30 |
| R-12 | 50 | 50 | 50 |
| R-13 | 50 | 20-50 | 20 |
| R-14 | 120 | 120 | 50-120 |
| R-15 | 120 | 15 | 100-120 |
| R-16 | 120 | 120 | 120 |
| R-17 | 120 | 50-120 | 20-50 |
| R-18 | 120 | 80-120 | 120 |
| R-19 | 50 | 10 | 10 |
| R-20 | 120 | 50-120 | 50-120 |
| R-21 | 50 | 10 | 10 |
| R-22 | 120 | 120 | 120 |
| R-23 | 120 | 110-20 | 120 |
| R-24 | 65 | 5 | 20 |
| R-25 | 65 | 10-20 | 10-30 |
| R-26 | 65 | 20-65 | -- |
| R-27 | 65 | 30-65 | -- |
| R-28 | 120 | 10 | 40-100 |
| R-29 | 120 | 120 | 20-120 |
| R-30 | 120 | 120 | 120 |
| R-31 | 120 | 20-120 | 120 |

Project Boundary
Watershed Boundary
Drainage
Upland

On Site Wetland Determination
Off Site Wetland Determination
Sample Point 58
Wetland Code ALS-1

SHEET 1

SHEET 2

Matchline sheet 1
Matchline sheet 2

PACIFIC OCEAN

Yaquina John Point

Big Stump Beach

Devils Bend

ALSEA BAY

ALSEA

SIUSLAW NATIONAL FOREST

Urban Growth Boundary

Eckman Lake

Buckley Creek

Little Creek

Lint Creek

R. 12 W.

R. 11 W.

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GRAPHIC SCALE

Scale in Feet

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DATE: June 30, 1999
BASE MAP INFO: SOURCE by ODOT, City of Waldport
JOB NO.: 8-1664

# Waldport
# Local Wetlands Inventory

Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, Oregon 97070
Phone: (503) 570-0800

FIG. 4A

Project Boundary
Watershed Boundary
Drainage
Upland
On Site Wetland Determination
Off Site Wetland Determination
Sample Point • 58
Wetland Code ALS-1

# Yaquina John Point

ALSEA BAY
PACIFIC OCEAN
Big Stump Beach
Matchline sheet 1
Matchline sheet 2
(CITY LIMITS IS)
SEAVIEW DR.
SUNSET WAY
BAY
WALDPORT MIDDLE SCHOOL
O.S.H.D. MAINT. STA.
WALDPORT SCHOOL
WALDPORT
SPRUCE ST.
SPRING ST.
HEMLOCK ST.
WILLOW ST.
MAPLE ST.
JOHN ST.
ALDER ST.
STRAWBERRY
CEDAR ST.
CEDAR DR.
EDGECLIFF DR.
Sewer Treatment Pond
WILLIAM P. KEADY WAYSIDE
PACIFIC V. CT.
OVERLOOK DR.
VIEW DR.
CRESTLINE DR.
BALL BLVD.
BIRD AVE.
NORWOOD LN.
DOLORES DR.
NORWOOD PARK PL.
BRENTWOOD DR.
GREENWOOD WAY
LUNDY LN.
ROLPH CT.
PARK DR.
BALL SALMON ST.
ROSE ST.
MICHAELDR
MEMORIAL HOME CEMETERY
MINNEWANA AVE.
WAZIYATA AVE.
ADAHI CORONA CT.
(NOT CITY) WALDPORT RANGER STA. IN
PAC-4
DSL Det # 96-0493
ALS-1A
ALS-1B
ALS-2A
ALS-2B
PARK
ALS-3
ALS-4A
ALS-4B
ALSEA WATERSHED
PACIFIC WATERSHED
PAC-5B
PAC-5A
PAC-2A
PAC-2B
PAC-2C
PAC-3A
PAC-3B
SEAWOODS TERR.
LA BARRE
FOREST TERR.
OCEAN CREST DR.
OCEAN CIR.
OCEAN CT.
FAIRWAY DR.
FOREST PKWY.
RANGE DR.
SUBSTATION
MIDGE LN.
ALICIA LN.
SOUTHMAYD LN.
TARA LN.
SEABROOK LN.
PAC-1A
PAC-1B
PAC-1C
PAC-1D
PAC-1E
PAC-1F
PAC-1G
PAC-1H
PAC-1J
PAC-1K
PAC-1L
PAC-1M
WATER TANK
CRESTVIEW HILLS GOLF COURSE
FAIRWAY CIR.
GREEN DR.
PARK
STATE HWY
MEMORIAL
PATTERSON
COAST
GOVERNOR
BREAKERS
SEAWAY
LP.
DR.
BREAKERS WAY
BREAKERS CT.
WHITECAP DR.
LN.
FERNWOOD
FERNWOOD DR.
FEHERENBACHER RD.
DAHLIA LN.
EDGEWATER DR.
101
NHS
PACIFIC SANDS DR.
AZALEA AVE.
ERIKSEN LN.
Little Creek
Lint
25 30
36 31

GRAPHIC SCALE
400 0 200 400 800 1600
Scale in Feet

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# Local Wetlands Inventory

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Wilsonville, Oregon 97070
Phone: (503) 570-0800

**FIG. 4B**

Project Boundary
Watershed Boundary
Drainage
Upland
On Site Wetland Determination
Off Site Wetland Determination
Sample Point
58
Wetland Code
ALS-1

Devils Bend
BAYVIEW RD
CEDARCREST PL.
PINECREST
CIR.
HIGHLAND
DR.
ALS-9
ALSEA
BAY
PORT (CITY LIMITS IS LOW WATER LINE)
M.P. 155.46
SPENCER ST.
RUBLE ST.
GRANT ST.
KEADY ST.
PINE ST.
FAYETTE ST.
HUCKLEBERRY ST.
SPRUCE ST.
SPRING ST.
HEMLOCK ST.
WILLOW ST.
MAPLE ST.
STRAWBERRY ST.
ALDER ST.
CEDAR ST.
BROADWAY
COMMERCIAL ST.
WALDPORT MIDDLE SCHOOL
O.S.H.D. MAINT. STA.
WALDPORT SCHOOL
WALDPORT
ALS-4B
ALS-4A
ALS-12A
ALS-5
ALS-6
ALS-11A
34
BUCHER LN.
HILLSIDE DR.
HEIGHTS
WATER TANKS
REBEL RD.
HWY
ALS-7
ALS-11B
MEADOWLARK LN.
ALSEA
EDGECLIFF DR.
Sewer Treatment Pond
Slough
LINT SLOUGH
SALMON AND STEELHEAD REARING IMPOUNDMENT
ALS-12B
EVERGREEN DR.
ALS-10B
McKINZIE
GIBSON RD.
ACACIA LN.
MOFFITT CT.
RHODY RD.
MOFFITT GARDEN WAY
KIRA LN.
RIVER VIEW LN.
SHADY COVE LN.
HARMONY LN.
EAGLE VIEW LN.
BLUE
GOSLIN
HAWI
HALL CT.
SHASTA WAY
KEISKI LN.
NELSON
WILLIAM P. KEADY SIDE
PACIFIC CT.
DR.
ALS-1B
ALS-1A
ALS-3
OVERLOOK DR.
JOHN ST.
ALS-2A
VIEW DR.
BRENTWOOD DR.
GREENWOOD WAY
CRESTLINE DR.
BALL BLVD.
BIRD AVE.
NORWOOD PARK PL.
DOLORES DR.
DSL Det # 96-0493
ALS-2B
PARK
HILL ST.
ROLPH CT.
LUNDY LN.
ALSEA PACIFIC WATERSHED
PARK DR.
BALL SALMON ST.
MEMORIAL HOME CEMETERY
ROSE ST.
MICHAEL DR.
MIDGE LN.
SUBSTATION
RANGE DR.
FOREST PKWY.
FAIRWAY DR.
WAY
Urban Growth Boundary
SIUSLAW NATIONAL FOREST
Lint Slough
19 20 30 29
ALS-8
CLOVER DR.
ALSEA WAY DR.
MERTEN ST.
ALS-10A
JEFFERSON
WASHINGTON
RIO VISTA DR.
LUCY LN.
PAC-1H
PAC-1J
CRESTVIEW HILLS
PAC-1K GOLF COURSE
PAC-1L
PACIFIC WATERSHED
ALSEA WATERSHED
FAIRWAY CIR.
GREEN DR.
Matchline sheet 1
Matchline sheet 2
WATER TANK
N

GRAPHIC SCALE
400 0 200 400 800 1600
Scale in Feet

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# Waldport
## Local Wetlands Inventory

Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, Oregon 97070
Phone: (503) 570-0800

PHS

FIG. 4C

Project Boundary
Watershed Boundary
Drainage
Riparian Code R-3
On Site Wetland Determination
Off Site Wetland Determination
Riparian Area
Sample Point

SHEET 1

SHEET 2

PACIFIC OCEAN

Yaquina John Point

Big Stump Beach

Devils Bend

Lost Lake

Hatchline sheet 1
Hatchline sheet 2

Urban Growth Boundary

SIUSLAW NATIONAL FOREST

ALSEA BAY

ALSEA BAY

Eckman Lake

Buckley Creek

Little Creek

R. 12 W.

R. 11 W.

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GRAPHIC SCALE

Scale in Feet

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# Waldport
## Riparian Inventory

Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, Oregon 97070
Phone: (503) 570-0800

FIG. 5A

Project Boundary
Watershed Boundary
Drainage
Riparian Code R-3
On Site Wetland Determination
Off Site Wetland Determination
Riparian Area
Sample Point

# Yaquina John Point

PACIFIC OCEAN

ALSEA BAY

R-1 R-2 R-3 R-4 R-5 R-6 R-7 R-8 R-9 R-10 R-11 R-12 R-13 R-14 R-15 R-16 R-17 R-18 R-19 R-20 R-21 R-31

DSL Det # 96-0493

Matchline sheet 1

Matchline sheet 2

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# Waldport
## Riparian Inventory

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**FIG. 5B**

Project Boundary
Watershed Boundary
Drainage
Riparian Code R-3
On Site Wetland Determination
Off Site Wetland Determination
Riparian Area
Sample Point

Devils Bend
PINECREST PL.
PINECREST
BAYVIEW RD
HIGHLAND CIR.
HIGHLAND DR.
HIGHLAND
R-30
ALSEA
BAY
PORT
(CITY LIMITS TO LOW WATER LINE)
M.P. 155.46
SPENCER ST.
RUBLE ST.
GRANT ST.
KEADY ST.
PINE ST.
FAYETTE ST.
HUCKLEBERRY ST.
SPRUCE ST.
SPRING ST.
HEMLOCK ST.
WILLOW ST.
MAPLE ST.
ALDER ST.
VERBINA ST.
JOHN ST.
COMMERCIAL ST.
BROADWAY ST.
WALDPORT MIDDLE SCHOOL
WALDPORT SCHOOL
WALDPORT
R-25
R-24
R-23
R-21
R-19
R-20
R-18
R-15
R-14
R-16
R-17
R-31
Sewer Treatment Pond
LINT SLOUGH
SALMON AND STEELHEAD REARING IMPOUNDMENT
R-22
Urban Growth Boundary
SIUSLAW NATIONAL FOREST
R-26
R-27
R-28
R-29
R-9
R-10
DSL Det # 96-0493
ALSEA WATERSHED
PACIFIC WATERSHED
MEMORIAL HOME CEMETERY
SUBSTATION
CRESTVIEW HILLS GOLF COURSE
FAIRWAY CIR.
GREEN DR.
RANGE DR.
MIDGE LN.
BALL SALMON ST.
PARK DR.
GREENWOOD WAY
CRESTLINE BLVD.
BIRD AVE.
BALL BLVD.
ROLPH CT.
LUNDY LN.
EDGECLIFF DR.
CEDAR ST.
WATER TANKS
REBEL DR.
EVERGREEN DR.
HIGH HEIGHTS
MEADOW LARK LN.
MEADOW LARK DR.
GIBSON RD.
MOFFITT CT.
ACACIA LN.
RHODY RD.
MOFFITT GARDEN WAY
KIRA LN.
RIVER VIEW LN.
SHADY COVE LN.
HARMONY LN.
EAGLE VIEW LN.
ALSEA WAY DR.
MERTEN ST.
JEFFERSON ST.
WASHINGTON ST.
RIO VISTA DR.
LUCY LN.
KEISKI LN.
HALL CT.
SHASTA WAY
NELSON
GOSL
HA
BUCHER LN.
WALDPORT DR.
Lint Slough
Matchline sheet 1
Matchline sheet 2
WATER TANK

GRAPHIC SCALE
Scale in Feet

Funding for this project was provided by a grant from the Oregon Division of State Lands, Wetlands Planning Assistance grant program. This grant program is supported by a grant from the U.S. Environmental Protection Agency under authority of the Clean Water Act.

**THIS MAP IS FOR PLANNING PURPOSES ONLY**
**WETLAND BOUNDARIES ARE APPROXIMATE AND SUBJECT TO CHANGE**

This map has NOT been approved by the wetland regulatory agencies for permitting purposes. You are advised to contact the Oregon Division of State Lands and the U.S. Army Corps of Engineers with any regulatory questions. There may be additional wetlands within the study area that have not been identified. All wetlands, whether mapped or not, are subject to Federal and State permit requirements. There may also be areas of non-wetland within areas identified as wetlands on this map. In all cases, Federal and State agencies will use actual field conditions, rather than this map, to determine wetland boundaries.

DATE: DRAFT April, 1999
BASE MAP INFO: SOURCE by ODOT, City of Waldport
JOB NO.: 8-1664

# Waldport
## Riparian Inventory

Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, Oregon 97070
Phone: (503) 570-0800

**FIG. 5C**

## 8.3 Riparian Assessment Results

An assessment of four riparian functions, water quality, flood management, thermal regulation, and wildlife habitat, was conducted for each of the riparian areas. The questions and answer sheets for the riparian assessment are included in Appendix E. The riparian functions are described in Section 3.4.3.

The riparian assessment is completed by answering a series of questions relating to the riparian functions. Each answer is assigned a score that reflects its overall importance to the function. Questions that were answered "a" received a higher score than "c" answers. After the score was totaled for each function, it was assigned a rating of high (H), medium (M), or low (L) according to the results. Table 16 summarizes the results of the riparian functional assessment.

**Table 16. Summary of Waldport's Riparian Functional Assessments and Significant Riparian Areas**

| Riparian Code | Water Quality | Flood Management | Thermal Regulation | Wildlife Habitat | Other Significant Criteria Met |
|---|---|---|---|---|---|
| **R-1 L/R*** | **H** | M | **H** | **H** | |
| **R-2 L/R*** | M | M | **H** | **H** | |
| **R-3 L/R*** | **H** | L | **H** | **H** | |
| **R-4 L/R*** | **H** | L | **H** | **H** | |
| **R-5 L/R*** | **H** | M | **H** | M | |
| **R-6 L/R*** | **H** | M | M | **H** | |
| R-7 L/R | M | M | L | M | |
| **R-8 L/R*** | **H** | M | **H** | **H** | |
| **R-9 L/R*** | **H** | M | **H** | **H** | |
| **R-10 L/R*** | **H** | M | **H** | **H** | |
| R-11 L/R | M | M | L | M | |
| **R-12 L/R*** | **H** | **H** | **H** | M | |
| **R-13 L/R*** | **H** | **H** | **H** | M | |
| **R-14 L/R*** | **H** | M | **H** | **H** | |
| R-15 L/R | M | L | L | L | |
| **R-16 L/R*** | **H** | M | M | **H** | |
| **R-17 L/R*** | **H** | M | **H** | **H** | |
| **R-18 L/R*** | **H** | M | M | **H** | |
| R-19 L | M | L | L | M | |
| R-19-R | M | L | L | L | |
| **R-20 L/R*** | M | M | **H** | M | |

H = High M = Medium L = Low

***Significant Riparian Area**

**Table 16. continued**

| Riparian Code | Water Quality | Flood Management | Thermal Regulation | Wildlife Habitat | Other Significant Criteria Met |
|---|---|---|---|---|---|
| R-21 L | M | L | L | L | |
| R-21-R | M | M | L | L | |
| **R-22 L/R*** | **H** | M | M | **H** | ✓ |
| **R-23 L*** | M | L | L | M | ✓ |
| **R-23-R*** | **H** | M | M | **H** | ✓ |
| **R-24 L/R*** | M | M | L | M | ✓ |
| **R-25 L/R*** | M | L | L | M | ✓ |
| **R-26 L*** | M | L | M | M | ✓ |
| **R-27 L*** | **H** | L | M | M | ✓ |
| **R-28 L*** | M | L | L | L | ✓ |
| **R-28 R*** | **H** | M | M | **H** | ✓ |
| **R-29 L/R*** | **H** | M | M | **H** | ✓ |
| **R-30 L/R*** | **H** | M | M | M | ✓ |
| **R-31 L/R*** | **H** | M | **H** | **H** | |

H = High M = Medium L = Low

***Significant Riparian Area**

# 9.0 SIGNIFICANT RIPARIAN AREAS DETERMINATION

## 9.1 Criteria for Identifying Significant Riparian Areas

Riparian areas along coastal waters are extremely important for a number of reasons. Goal 17 recognizes the importance of riparian vegetation along the coast and states in the *Identification Section* that coastal shorelands should at least include "Natural or man-made riparian resources, especially vegetation necessary to stabilize the shoreline and to maintain water quality and temperature necessary for the maintenance of fish habitat and spawning areas." Due to the recent listing of coho salmon as a threatened species under the Endangered Species Act by the National Marine Fisheries Service, protecting and even restoring riparian areas has never been more important.

PHS has based the criteria for determining significant riparian areas on their ability to enhance water quality, maintain lower water temperatures, and provide habitat for wildlife, especially salmonids. PHS assessed the ability of the riparian areas to perform these functions using the Riparian Function Assessment section of the Riparian Guide. The results of the riparian assessment indicate whether the functional integrity of each reach is high, medium, or low. The Riparian Guide also assesses the ability of riparian areas to provide flood management, but as this function is not implicitly stated in the Goal, it was not considered in the significance determination. In addition, riparian areas adjacent to a stream listed by the ODFW as essential indigenous anadromous salmonid habitat were considered to be significant. Table 17 (next page) summarizes the criteria for determining significant riparian areas.

**Table 17. Criteria for Determining Significant Riparian areas within the Waldport Urban Growth Boundary**

| *Goal 5& 17 Significant Riparian Area Criteria:* **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.** | |
|---|---|
| 1 | Does the riparian area have a high water quality function? |
| 2 | ***Does the riparian area have a high flood management function?**** |
| 3 | Does the riparian area have a high thermal regulation function? |
| 4 | Does the riparian area have a high wildlife habitat function? |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat)? |
| 6 | Does the riparian area contain a rare plant community? |
| 7 | Is the riparian area inhabited by any species listed federally as threatened or Endangered, or state listed as sensitive, threatened or endangered? |

****Goal 5 only***

## 9.2 Significant Riparian Areas Determination Results

Of the 54 riparian reaches assessed, 44 (81%) met the criteria for significance and will require protection (Table 16) (Appendix G). Many of the riparian areas received at least one rating of high for Water Quality, Thermal Regulation, or Wildlife Habitat. Many of the riparian areas are also adjacent to the Lint Slough, McKinney Slough, or the Alsea River, which have been designated by ODFW as essential salmonid habitat. Several of the riparian areas are also adjacent to major marshes, as discussed in Section 7.4.

The majority of the riparian areas received a high assessment for water quality function due to a dominance of woody trees and shrubs in the riparian areas and low extents of impervious surfaces. The flood management function was generally ranked as medium or low due to steep topography within the riparian area, thereby limiting the potential for flooding.

Thermal regulation varied, depending on the type and extent of vegetation and orientation of the water resource. Riparian areas were usually well vegetated with trees and shrubs, however the orientation of the water resource may not allow for shading of the water at midday in the summer. In addition, some riparian areas in the downtown area of Waldport were very narrow and had extensive areas of development or impervious surfaces within the assessment area.

Wildlife habitat was usually either medium or high for the riparian areas due to the presence of perennial surface water, well vegetated areas, and lack of impervious surfaces in the study area.

## 10.0 PROJECT SUMMARY

- Pacific Habitat Services was hired to conduct a Local Wetlands Inventory and Riparian Inventory for the City of Waldport. The project area extends both north and south of the Alsea River within the Urban Growth Boundary of the City.

- The project area is approximately 1,790 acres, and includes portions of the Alsea River, Patterson Creek, Lint Slough, and McKinney Slough.

- Field work was conducted between September 1998 and March 1999. Each wetland unit was assigned a unique code based on the hydrologic basin. A wetland characterization and wetland assessment was completed for each wetland unit. The wetland assessment was based on the *Oregon Freshwater Wetland Assessment Methodology.*

- Locally Significant Wetlands were identified based on Oregon Administrative Rules.

- A total of 38 wetland units were identified in the Waldport project area, with a total acreage of approximately 72.99 acres. Five of these wetlands are considered estuarine resources under Goal 16.

- The majority of the wetlands can be classified as estuarine emergent (64%), followed by palustrine forested (13%), palustrine scrub/shrub (12%), palustrine emergent (10%), and palustrine unconsolidated bottom (2%). The study area also contains approximately 0.38 acres of riverine waters of the state.

- None of the wetlands met the criteria for "wetlands of special interest for protection."

- The majority of the wetlands were of relatively high quality due to surrounding undeveloped lands, hydrologic connection to other wetlands or waters, and variety of vegetation cover.

- Seventeen of the twenty-four Goal 5 wetlands met the criteria for Locally Significant Wetlands.

- Four of the nine Goal 17 wetlands met the criteria for Major Marsh.

- Five of the wetlands within the study area are designated Estuarine Resources under Goal 16 and were not assessed according to OFWAM.

- The riparian inventory assessed 31 areas associated with the Alsea River, Patterson Creek, Lint Slough and McKinney Slough. Riparian widths in the project area range from 5-to-120 feet, based on actual site conditions and potential tree height.

- Forty-four (44) of the 54 riparian areas assessed in the study area are significant according to the criteria.

## 11.0 REFERENCES


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U.S.G.S. *7.5-minute topographic quadrangle*, 1985 Provisional Edition. Waldport, OR, 1:24,000.

# Appendix A
# Wetland Characterization Sheets

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | | Wetland Mapping Code: | *ALS-1A* |
| Data Sheet Numbers: | *OFF-SITE* | Size (acres): | *0.23* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PFO, R3* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *Red River south of Norwood Drive* | |
| Hydrologic basin: | *Alsea River* | *13-11-19CA, CD* |
| | | *1001, 301* |
| Soil -- Mapped series: | *Ferrelo loam, 5-30%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Rubus spectabilis* | | *Lysichitum americanum* |
| | | | *Athyrium filix-femina* |
| | | | |
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**Comments:** Drainage delineated by Wilbur Ternynik in 1996 for Whispering Woods Subdivision. Tributary to Red River flows north from hills, culverted at north end at intersection with Pacific Drive. Zoned residential.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Picea sitchensis, Gaultheria shallon, Vaccinium ovatum, Polystichum munitum, Blechnum spicant*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | | Wetland Mapping Code: | *ALS-1B* |
| Data Sheet Numbers: | *OFF-SITE* | Size (acres): | *0.01* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *R3* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *Red River between Starr Street and Norwood Drive* | |
| Hydrologic basin: | *Alsea River* | *13-11-19CA* |
| | | *3000* |
| Soil -- Mapped series: | *Ferrelo loam, 5-30%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Rubus spectabilis* | | |
| | | | |
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| | | | |
| | | | |

**Comments:** North portion of Red River drainage, culverted south of Norwood Drive and under Starr Street. Narrow channel defined by steep topography and road to west. Zoned residential.

Adjacent upland vegetation: *Picea sitchensis, Gaultheria shallon, Vaccinium ovatum, Polystichum munitum, Blechnum spicant*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 18, 1999* | Wetland Mapping Code: | *ALS-2A* |
| Data Sheet Numbers: | *21-26* | Size (acres): | *4.07* |
| Investigator(s): | *JF, CR, PF, JVS* | Wetland Classification(s): | *PFO, PEM, R4* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *Red River south of Starr Street* | |
| Hydrologic basin: | *Alsea River* | *13-11-19CA* |
| | | *200* |
| Soil -- Mapped series: | *Ferrelo loam, 5-30%* | *13-11-19-DB* |
| | *Depoe silt loam* | *500, 400* |
| Hydrologic Source: | *Surface water, groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Rubus spectabilis* | | *Lysichitum americanum* |
| *Picea sitchensis* | | | *Carex obnupta* |
| | | | *Athyrium filis-femina* |
| | | | *Juncus balticus* |
| | | | *Scirpus microcarpus* |
| | | | *Juncus patens* |
| | | | *Equisetum arvense* |
| | | | *Holcus lanatus* |
| | | | |

**Comments:** Main Red River drainage, culverted Starr Street. Flows north from wooded hillsides, with several side branches. Originates west of Park Drive. High quality wetland with good interspersion of wetland types and forested riparian area. Steep hillsides to east and west. Zoned residential.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Gaultheria shallon, Vaccinium ovatum, Polystichum munitum, Blechnum spicant, Vaccinium parvifolium, Rubus ursinus*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *ALS-2B* |
| Data Sheet Numbers: | | Size (acres): | *0.48* |
| Investigator(s): | *PF, JVS* | Wetland Classification(s): | *PFO* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *Red River south of Starr Street* | |
| Hydrologic basin: | *Alsea River* | *13-11-19DC* |
| | | *330, 331, 334* |
| Soil -- Mapped series: | *Ferrelo loam, 5-30%* | |
| Hydrologic Source: | *Surface water, groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Rubus spectabilis* | | *Lysichitum americanum* |
| *Picea sitchensis* | | | *Carex obnupta* |
| | | | *Athyrium filis-femina* |
| | | | |
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**Comments:** Headwaters of main Red River drainage. Flows north from wooded hillsides, with several side branches. Primarily narrow steep forested drainages, culverted under old logging roads. Steep ravines. Forested riparian area to east and west.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Gaultheria shallon, Vaccinium ovatum, Polystichum munitum, Blechnum spicant, Vaccinium parvifolium*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 17, 1998* | Wetland Mapping Code: | *ALS-3* |
| Data Sheet Numbers: | *27, 28* | Size (acres): | *0.33* |
| Investigator(s): | *JF, CR* | Wetland Classification(s): | *PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *Tributary of Red River* | |
| Hydrologic basin: | *Alsea River* | *13-11-19DB* |
| | | *400, 500* |
| Soil -- Mapped series: | *Fendall gravelly clay loam* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Agrostis tenuis* |
| | | | *Equisetum arvense* |
| | | | *Juncus balticus* |
| | | | *Juncus bufonius* |
| | | | *Juncus patens* |
| | | | *Poa annua* |
| | | | |
| | | | |
| | | | |

**Comments:** Tributary of Red River. Flows north from wooded hillside, culverted under Starr Street. Flows north on west side of Cedar Drive. Narrow wetland at base of steep forested ravine. Zoned residential. North end of drainage adjacent to ballfields.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Alnus rubra, Rubus discolor, Hypochaeris radicata, Festuca arundinacea, Anthoxanthum odoratum, Agrostis tenuis, Trifolium pratense*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 17, 1998* | Wetland Mapping Code: | *ALS-4A* |
| Data Sheet Numbers: | | Size (acres): | *0.56* |
| Investigator(s): | *JF, CR* | Wetland Classification(s): | *PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *Red River* | |
| Hydrologic basin: | *Alsea River* | *13-11-19BD* |
| | | *10500,* |
| Soil -- Mapped series: | *Tidal Marsh* | *ROAD ROW* |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Agrostis tenuis* |
| | | | *Equisetum arvense* |
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**Comments:** Ditched portion of Red River on north side of Starr Street. Flows east. Hydrologically connected to ALS-1B, 2A, and 3 via culverts. Recent construction of walls and new culverts. No riparian vegetation. Zoned commercial. Entire area slated to be culverted in near future.

Adjacent upland vegetation: *Festuca arundinacea, Hypochaeris radicata, Bromus sp.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 16, 1998* | Wetland Mapping Code: | *ALS-4B* |
| Data Sheet Numbers: | *36, 37* | Size (acres): | *0.49* |
| Investigator(s): | *JF, CR* | Wetland Classification(s): | *PEM* |

| | |
|---|---|
| Location -- Legal: *T13S, R11W, Section 19* | Tax lot(s): |
| Other: *Red River* | *13-11-19AD* |
| Hydrologic basin: *Alsea River* | *700* |
| | *ROAD ROW* |
| Soil -- Mapped series: *Tidal Marsh* | *13-11-19BD* |
| | *10500* |
| Hydrologic Source: *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Agrostis tenuis* |
| | | | *Carex obnupta* |
| | | | *Festuca arundinacea* |
| | | | *Juncus patens* |
| | | | |
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**Comments:** Ditched portion of Red River on south side of Starr Street, adjacent to High School. Hydrologically connected to ALS-4B via culverts. Mapped as estuarine on NWI maps but now no surface water connection to Lint Slough. Water pumped to slough now. Riparian area impacted by road and high school. Zoned commercial.

Adjacent upland vegetation: *Festuca arundinacea, Hypochaeris radicata, Bromus sp.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 17, 1998* | Wetland Mapping Code: | *ALS-5* |
| Data Sheet Numbers: | *38, 39* | Size (acres): | *0.83* |
| Investigator(s): | *JF, CR* | Wetland Classification(s): | *PEM* |

| | |
|---|---|
| Location -- Legal: *T13S, R11W, Section 20* | Tax lot(s): |
| Other: *East of Lint Slough, north of Highway 34* | |
| Hydrologic basin: *Alsea River* | *13-11-20BB* |
| | *100* |
| Soil -- Mapped series: *Tidal Marsh* | |
| Hydrologic Source: *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Agrostis tenuis* |
| | | | *Phalaris arundinacea* |
| | | | *Holcus lanatus* |
| | | | *Ranunculus repens* |
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**Comments:** Wetland located north of Hwy 34 and south of McKinleys Marina/RV Park. Narrow channel extends to north along fill edge of development. Drains west, hydrologically connected to ALS-11. Zoned commercial.

**MAJOR MARSH**
Adjacent upland vegetation: *Festuca arundinacea, Dactylis glomerata, Hedera helix, Rubus discolor, Ilex aquifolium, Alnus rubra.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | ***March 10, 1999*** | Wetland Mapping Code: | ***ALS-6*** |
| Data Sheet Numbers: | ***40, 41*** | Size (acres): | ***0.11*** |
| Investigator(s): | ***JF, PF*** | Wetland Classification(s): | ***PSS*** |

| | | |
|---|---|---|
| Location -- Legal: | ***T13S, R11W, Section 20*** | Tax lot(s): |
| Other: | ***South of Hwy 34, east of Waldport Heights Drive*** | |
| Hydrologic basin: | ***Alsea River*** | ***13-11-20BB*** |
| | | ***500*** |
| Soil -- Mapped series: | ***Fendall gravelly clay loam*** | |
| Hydrologic Source: | ***Surface water*** | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| ***Alnus rubra*** | ***Alnus rubra*** | | ***Lysichitum americanum*** |
| | ***Rubus spectabilis*** | | ***Scirpus microcarpus*** |
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**Comments:** Narrow drainage flows north from ravine between High Street and Waldport Heights Drive. Culverted under Hwy 34; hydrologically connected to ALS-11. Mostly riverine, with small wetland at Hwy 34 culvert. Zoned planned industrial. Adjacent to industrial parking area. Some smell of petroleum products and oil sheen in water.

Adjacent upland vegetation: *Rubus discolor, Rubus spectabilis, Alnus rubra, Sambucus racemosa, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | ***March 10, 1999*** | Wetland Mapping Code: | ***ALS-7*** |
| Data Sheet Numbers: | ***42, 43*** | Size (acres): | ***0.16*** |
| Investigator(s): | ***JF, PF*** | Wetland Classification(s): | ***PFO*** |

| | | |
|---|---|---|
| Location -- Legal: | ***T13S, R11W, Section 20*** | Tax lot(s): |
| Other: | ***Southwest of Hwy 34, north of Meadowlark Lane*** | |
| Hydrologic basin: | ***Alsea River*** | ***13-11-20BD*** |
| | | ***1200*** |
| Soil -- Mapped series: | ***Fendall gravelly clay loam*** | |
| Hydrologic Source: | ***Surface water*** | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| ***Alnus rubra*** | ***Rubus spectabilis*** | | ***Athyrium filix-femina*** |
| | | | ***Lysichitum americanum*** |
| | | | ***Cardamine angulata*** |
| | | | ***Equisetum hyemale*** |
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**Comments:** Narrow drainage flows east from ravine east of High Street. Culverted under Hwy 33 to Alsea River. Zoned residential.

Adjacent upland vegetation: *Picea sitchensis, Rubus spectabilis, Alnus rubra, Tsuga heterophylla, Hedera helix, Polystichum munitum, Sambucus racemosa*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | ***March 10, 1999*** | Wetland Mapping Code: | ***ALS-8*** |
| Data Sheet Numbers: | ***44, 45, 46*** | Size (acres): | ***0.67*** |
| Investigator(s): | ***JF, PF*** | Wetland Classification(s): | ***PEM*** |

| | | |
|---|---|---|
| Location -- Legal: | ***T13S, R11W, Section 20*** | Tax lot(s): |
| Other: | ***Clover Lane, south of Hwy 34*** | |
| Hydrologic basin: | ***Alsea River*** | ***13-11-20D*** |
| | | ***2500, 2700*** |
| Soil -- Mapped series: | ***Lint silty clay loam*** | |
| | ***Knappa silt loam*** | |
| Hydrologic Source: | ***Precipitation, groundwater*** | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | ***Phalaris arundinacea*** |
| | | | ***Juncus effusus*** |
| | | | ***Carex obnupta*** |
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**Comments:** Emergent wetland located on both sides of Clover Lane, south of Hwy 34.
Low area in road with some gravel. No apparent outlet, though supposedly drains north to Alsea.
Zoned residential.

Adjacent upland vegetation: *Picea sitchensis,Rubus discolor, Pteridium aquilinum*
*Cytisus scoparius*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 18, 1999* | Wetland Mapping Code: | *ALS-9* |
| Data Sheet Numbers: | *47, 48* | Size (acres): | *0.55* |
| Investigator(s): | *JVS, PF* | Wetland Classification(s): | *PFO* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 18* | Tax lot(s): |
| Other: | *North of Alsea River, south of Bayview Road* | |
| Hydrologic basin: | *Alsea River* | *13-11-18CD* |
| | | *2000, 2001, 2200, 3900* |
| Soil -- Mapped series: | *Fendall gravelly clay loam* | |
| Hydrologic Source: | *Surface water, groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Rubus spectabilis* | | |
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**Comments:** Located north of Alsea River, south of Bayview Road. Drains south to Alsea River. Culvert under Bayview Road. Located within ravine at east end of residential development. Zoned residential.

**MAJOR MARSH**
Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | | Wetland Mapping Code: | *ALS-10A* |
| Data Sheet Numbers: | *OFF-SITE* | Size (acres): | *2.33* |
| Investigator(s): | *JF, PF* | Wetland Classification(s): | *PSS, PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 20* | Tax lot(s): |
| Other: | *Peterson Park development* | |
| Hydrologic basin: | *Alsea River* | *13-11-20D* |
| | | *4500, 3300, 3600* |
| Soil -- Mapped series: | *Knappa silt loam* | |
| Hydrologic Source: | *Surface water, groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Oenanthe sarmentosa* |
| | *Alnus rubra* | | *Lysichitum americanum* |
| | *Lonicera involucrata* | | *Juncus effusus* |
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**Comments:** Upper end of McKinney Slough, south of Hwy 34, west of Peterson Park. Nice emergent and scrub shrub wetland located in broad swale with steep hillsides to east and west. Drains north, braided channels, large woody debris. Extends south out of project area, culverted under Lucy Lane. Zoned residential.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Polystichum munitum, Gaultheria shallon, Rubus spectabilis, Vaccinium ovatum, Rubus discolor*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 10, 1999* | Wetland Mapping Code: | *ALS-10B* |
| Data Sheet Numbers: | *66, 67* | Size (acres): | *8.08* |
| Investigator(s): | *JF, PF* | Wetland Classification(s): | *E2* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 20* | Tax lot(s): |
| Other: | *McKinney Slough* | |
| Hydrologic basin: | *Alsea River* | *13-11-20D* |
| | | *4500, 3300, 3600* |
| Soil -- Mapped series: | *Knappa silt loam* | |
| Hydrologic Source: | *Surface water, groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Oenanthe sarmentosa* |
| | | | *Deschampsia cespitosa* |
| | | | *Juncus effusus* |
| | | | *Angelica lucida* |
| | | | *Aster sp.* |
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**Comments:** McKinney Slough, south of Hwy 34, west of Home Port Road. Nice emergent estuarine wetland. Extends south through Forest Service land to ALS-10A. Residential to east. Small area of fill along swale at end of Home Port Road. Forested riparian area to west (out of project area). Zoned Residential.

**GOAL 16 ESTUARINE**

Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Polystichum munitum, Gaultheria shallon, Rubus spectabilis, Vaccinium ovatum, Hedera helix, Glecoma hederacea*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 10, 1999* | Wetland Mapping Code: | *ALS-11A* |
| Data Sheet Numbers: | *64, 65* | Size (acres): | *2.63* |
| Investigator(s): | *JF, PF* | Wetland Classification(s): | *E2* |

| | |
|---|---|
| Location -- Legal: *T13S, R11W, Section 20* | Tax lot(s): |
| Other: *North of Hwy 34, south edge of river* | |
| Hydrologic basin: *Alsea River* | *13-11-20BB* |
| | *200* |
| Soil -- Mapped series: *Tidal Marsh* | |
| Hydrologic Source: *Surface water, tidal* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Aster sp.* |
| | | | *Deschampsia cespitosa* |
| | | | *Juncus effusus* |
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**Comments:** Estuarine emergent wetland north of Hwy 34, east of McKinley Marina. Hydrologically connected to Alsea River and other estuarine wetlands, ALS-5 and ALS-6.

**GOAL 16 ESTUARINE**

Adjacent upland vegetation: *Alnus rubra, Rubus discolor, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | | Wetland Mapping Code: | *ALS-11B* |
| Data Sheet Numbers: | *OFF-SITE* | Size (acres): | *0.75* |
| Investigator(s): | *JF, PF* | Wetland Classification(s): | *E2* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 20* | Tax lot(s): |
| Other: | *Between Alsea River and Hwy 34* | |
| Hydrologic basin: | *Alsea River* | *13-11-20BD* |
| | | *2700* |
| Soil -- Mapped series: | *Tidal Marsh* | |
| Hydrologic Source: | *Surface water, tidal* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Aster sp.* |
| | | | *Deschampsia cespitosa* |
| | | | *Juncus effusus* |
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**Comments:** Estuarine emergent wetland north of Hwy 34, west of Meadowlark Lane. Hydrologically connected to Alsea River and other estuarine wetlands in project area. Possibly hydrologically connected to ALS-7.

**GOAL 16 ESTUARINE**

Adjacent upland vegetation: *Alnus rubra, Rubus discolor, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 17, 1998* | Wetland Mapping Code: | *ALS-12A* |
| Data Sheet Numbers: | *54-63* | Size (acres): | *33.78* |
| Investigator(s): | *JF, CR* | Wetland Classification(s): | *E2* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 20* | Tax lot(s): |
| Other: | *Lint Slough* | *13-11-19AD* |
| Hydrologic basin: | *Alsea River* | *102, 101, 801* |
| | | |
| Soil -- Mapped series: | *Tidal Marsh* | *13-11-18DD* |
| | | *4101, 4102* |
| Hydrologic Source: | *Surface water, tidal* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Aster sp.* |
| | | | *Deschampsia cespitosa* |
| | | | *Atriplex sp.* |
| | | | *Carex lyngbei* |
| | | | *Potentilla anserina* |
| | | | *Salicornia virginica* |
| | | | *Triglochin sp.* |
| | | | *Grindelia integrifolia* |
| | | | *Agrostis stolonifera* |

**Comments:** Lint Slough estuarine emergent wetland north of Hwy 34, east of Mill Street. Hydrologically connected to Alsea River and other estuarine wetlands in project area. Extends south out of project area. Tide gate located at south edge of project boundary.

**GOAL 16 ESTUARINE**

Adjacent upland vegetation: *Alnus rubra, Rubus discolor, Polystichum munitum, Phalaris, Hedera helix, Rubus ursinus, Gaultheria shallon, Vaccinium ovatum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | | Wetland Mapping Code: | *ALS-12B* |
| Data Sheet Numbers: | *OFF-SITE* | Size (acres): | *1.56* |
| Investigator(s): | *JVS, PF* | Wetland Classification(s): | *E2* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 20* | Tax lot(s): |
| Other: | *Lint Slough, south of tidegate* | *13-11-20BC* |
| Hydrologic basin: | *Alsea River* | *2800, 2900, 3000-3300* |
| | | |
| Soil -- Mapped series: | *Tidal Marsh* | |
| Hydrologic Source: | *Surface water, tidal* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Aster sp.* |
| | | | *Deschampsia cespitosa* |
| | | | *Atriplex sp.* |
| | | | *Carex lyngbei* |
| | | | *Potentilla anserina* |
| | | | *Salicornia virginica* |
| | | | *Triglochin maritima* |
| | | | *Grindelia integrifolia* |
| | | | *Agrostis stolonifera* |

**Comments:** Lint Slough estuarine emergent wetland south of tide gate.
Hydrologically connected to Alsea River, ALS-12A, and other estuarine wetlands in project area.
Extends south out of project area.

**GOAL 16 ESTUARINE**
Adjacent upland vegetation: *Alnus rubra, Polystichum munitum, Rubus spectabilis, Rubus ursinus, Gaultheria shallon, Vaccinium ovatum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-1A* |
| Data Sheet Numbers: | *1,2,3,4,5,6* | Size (acres): | *5.74* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PFO, PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Patterson Creek, east of 101, Ocean Hills development* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25 AD* |
| | | *3800, 3700* |
| Soil -- Mapped series: | *Nelscott loam, 3-12%* | |
| | *Bandon fine sandy loam, 12-50%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Ledum glandulosum* | | *Juncus balticus* |
| *Tsuga heterophylla* | *Spiraea douglasii* | | *Juncus effusus* |
| | *Malus fusca* | | *Juncus falcatus* |
| | | | *Carex obnupta* |
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**Comments:** Large wetland to the east of Hwy 101 associated with Patterson Creek. Drains under highway via a large culvert to Pacific Ocean. Lots of snags. Good interspersion of wetlands types and uplands. Residential area to east. Three large culverts under Parmlee Drive. Divided into two main branches, south branch extends out of UGB. High quality wetland.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Gaultheria shallon, Vaccinium ovatum, Cytisus scoparius, Alnus rubra, Thuja plicata, Blechnum spicant, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-1B* |
| Data Sheet Numbers: | | Size (acres): | *1.51* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PEM, PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Patterson Creek, east of 101, Ocean Hills development* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25 AD* |
| | | *3700* |
| Soil -- Mapped series: | *Nelscott loam, 3-12%*<br>*Bandon fine sandy loam, 12-50%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Ledum glandulosum* | | *Juncus balticus* |
| *Tsuga heterophylla* | *Spiraea douglasii* | | *Juncus effusus* |
| | | | *Juncus falcatus* |
| | | | *Carex obnupta* |
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**Comments:** Large wetland to the east of Hwy 101 associated with Patterson Creek. Drains via a culvert to PAC-1A and connected at upper end to PAC-1C and PAC-1D. Residential area to north and south. High quality wetland with good interspersion of wetland types.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Gaultheria shallon, Vaccinium ovatum, Cytisus scoparius, Alnus rubra, Thuja plicata, Blechnum spicant, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-1C* |
| Data Sheet Numbers: | *7, 8,50,51* | Size (acres): | *0.17* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PEM, R3* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 25, 30* | Tax lot(s): |
| Other: | *Patterson Creek tributary* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30* |
| | | *800* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 3-12%*<br>*Bandon fine sandy loam, 12-50%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Lotus corniculatus* |
| | *Alnus rubra* | | *Juncus effusus* |
| | | | *Scirpus microcarpus* |
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**Comments:** Small northern tributary of Patterson Creek. Drains south and west. Upper end extends to Range Drive. Hydrologically connected to PAC-1B. Majority of drainage is within a narrow channel, however two small emergent wetlands were observed. Area has been logged with several logging roads and culverts.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Tsuga heterophylla, Pinus contorta, Gaultheria shallon, Vaccinium ovatum, Rubus spectabilis, Rhododendron sp., Myrica sp.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-1D* |
| Data Sheet Numbers: | *9, 10* | Size (acres): | *0.96* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *Patterson Creek tributary* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30* |
| | | *3700* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 3-12%*<br>*Bandon fine sandy loam, 12-50%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Juncus acuminatus* |
| | *Alnus rubra* | | *Juncus effusus* |
| | | | *Carex obnupta* |
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**Comments:** Patterson Creek drainage, north fork. Drains north and connected via culvert to PAC-1B. Area to west is residential, area to east has been logged. Forks at upper end to south and connected to PAC-1F and PAC-1E.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Pinus contorta, Gaultheria shallon, Vaccinium ovatum, Rubus spectabilis, Sambucus racemosa*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-1E* |
| Data Sheet Numbers: | | Size (acres): | *0.37* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Patterson Creek drainage* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25* |
| | | *500* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 3-12%* | |
| Hydrologic Source: | *Surface water, groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Carex obnupta* |
| | *Alnus rubra* | | |
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**Comments:** Patterson Creek drainage, hydrologically connected to PAC-1F via culvert under old logging road. Probably mostly derived from groundwater. Some disturbance in wetland and adjacent uplands have been logged.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Picea sitchensis, Tsuga heterophylla, Pinus contorta, Gaultheria shallon, Vaccinium ovatum, Rubus spectabilis, Alnus rubra, Cytisus scoparius*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-1F* |
| Data Sheet Numbers: | | Size (acres): | *0.09* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PSS, R4* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Patterson Creek drainage* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25* |
| | | *13-11-30* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 12-50%* | *800* |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Carex obnupta* |
| | *Alnus rubra* | | *Epilobium sp.* |
| | | | *Lotus corniculatus* |
| | | | *Juncus effusus* |
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**Comments:** Patterson Creek drainage, hydrologically connected to PAC-1D and 1G via culverts under old logging road. Hydrology appears to be seasonal surface flows. Adjacent uplands have been logged.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Tsuga heterophylla, Pinus contorta, Gaultheria shallon, Rubus ursinsus Vaccinium ovatum, Rubus spectabilis, Alnus rubra, Cytisus scoparius, Rhamnus purshiana*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-1G* |
| Data Sheet Numbers: | *11, 12* | Size (acres): | *0.29* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PEM, R4* |

| | |
|---|---|
| Location -- Legal: *T13S, R11W, Section 30* | Tax lot(s): |
| Other: *Patterson Creek drainage* | |
| Hydrologic basin: *Pacific Ocean* | |
| | *13-11-30* |
| Soil -- Mapped series: *Bandon fine sandy loam, 12-50%* | *800* |
| Hydrologic Source: *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Alnus rubra* | *Rubus spectabilis* | | *Carex obnupta* |
| *Thuja plicata* | *Alnus rubra* | | *Lotus corniculatus* |
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**Comments:** Patterson Creek drainage, hydrologically connected to PAC-1F, 1H, and 1K. Logged uplands and heavily silted drainage channel. Water ponded at time of observation. Many old logging roads cross drainage. Forks at east end into three smaller drainages extending east to Golf course.

**LOCALLY SIGNIFICANT WETLAND**

Adjacent upland vegetation: *Tsuga heterophylla, Pinus contorta, Gaultheria shallon, Picea sitchensis Vaccinium ovatum, Rubus spectabilis, Alnus rubra*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 16, 1998* | Wetland Mapping Code: | *PAC-1H* |
| Data Sheet Numbers: | *13, 14* | Size (acres): | *0.28* |
| Investigator(s): | *CR, JF* | Wetland Classification(s): | *PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *Patterson Creek drainage* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30* |
| | | *800* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 12-50%* | *13-11-30 BD* |
| | | *1200* |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Juncus effusus* |
| | | | *Lotus corniculatus* |
| | | | *Equisetum arvense* |
| | | | *Juncus balticus* |
| | | | *Juncus ensifolius* |
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**Comments:** Patterson Creek drainage, hydrologically connected to PAC-1G and 1J.
Upper end of drainage is within Crestview Hills Golf Course. PEM wetland narrows to west to small drainage. Area in west has been logged.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Gaultheria shallon, Cytisus scoparius, Rubus spectabilis*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-1J* |
| Data Sheet Numbers: | | Size (acres): | *1.06* |
| Investigator(s): | *CR,JF* | Wetland Classification(s): | *PUB* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *Golf Course pond* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30 BD* |
| | | *1200* |
| Soil -- Mapped series: | *Depoe silt loam* | |
| Hydrologic Source: | *Groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Juncus effusus* |
| | | | *Lotus corniculatus* |
| | | | *Equisetum arvense* |
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**Comments:** Patterson Creek drainage, hydrologically connected to PAC-1H.
Excavated pond within Crestview Hills Golf Course. Separated from downslope drainage by berm. Steep edges along pond. May receive seepage from upslope areas of golf course.

Adjacent upland vegetation: *Gaultheria shallon, Cytisus scoparius, Rubus spectabilis, turf grasses.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 16, 1998* | Wetland Mapping Code: | *PAC-1K* |
| Data Sheet Numbers: | *15, 16* | Size (acres): | *0.27* |
| Investigator(s): | *CR,JF* | Wetland Classification(s): | *PEM, PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *Patterson Creek drainage* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30* |
| | | *800* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 12-50%* | *13-11-30 BD* |
| | | *1200* |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Thuja plicata(snags)* | *Rubus spectabilis* | | *Juncus effusus* |
| | *Alnus rubra* | | *Lotus corniculatus* |
| | *Salix hookeriana* | | *Agrostis tenuis* |
| | *Pinus contorta* | | *Juncus ensifolius* |
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**Comments:** Patterson Creek drainage, hydrologically connected to PAC-1K via drain pipe. Excavated pond on southwest corner of Crestview Hills Golf Course. Steep banks at west end, with some scrub shrub at east end of pond. Drains west through logged area.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Gaultheria shallon, Cytisus scoparius, Pinus contorta, Hypochaeris radicata, Agrostis tenuis, Rubus discolor, Tsuga heterophylla*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *November 17, 1998* | Wetland Mapping Code: | *PAC-1L* |
| Data Sheet Numbers: | | Size (acres): | *0.62* |
| Investigator(s): | *CR, JF* | Wetland Classification(s): | *PUB, PEM, PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *Golf Course Pond* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30 BD* |
| | | *1200* |
| Soil -- Mapped series: | *Depoe silt loam* | |
| Hydrologic Source: | *Groundwater* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Rubus spectabilis* | | *Juncus effusus* |
| | *Pinus contorta* | | *Lotus corniculatus* |
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**Comments:** Patterson Creek, hydrologically connected to PAC-1K.
Excavated pond within Crestview Hills Golf Course. Separated from downslope drainage by berm. Steep edges along pond. May receive seepage from upslope areas of golf course

Adjacent upland vegetation: *Turf grasses.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-1M* |
| Data Sheet Numbers: | *49* | Size (acres): | *0.08* |
| Investigator(s): | *PF, JVS* | Wetland Classification(s): | *PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Patterson Creek drainage* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25 AD* |
| | | *3800* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 12-50% slopes* | |
| Hydrologic Source: | *Precipitation* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | | | *Juncus balticus* |
| | | | *Carex obnupta* |
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**Comments:** Small ponded area at intersection of old logging roads, south of Patterson Creek. Possibly artificial due to compaction and lack of gradient. Lots of disturbance due to past logging and roads. Piles of slash.

Adjacent upland vegetation: *logged*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

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|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-2A* |
| Data Sheet Numbers: | *17, 18* | Size (acres): | *0.88* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PFO, PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Between Hwy 101 and Range Road* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30-BB* |
| | | *1119, 1114* |
| Soil -- Mapped series: | *Depoe loam, 0-7% slopes* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Picea sitchensis* | *Salix hookeriana* | | *Juncus balticus* |
| | *Rubus spectabilis* | | *Lysichitum americanum* |
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**Comments:** Small drainage from hills to east. Hydrologically connected to PAC-2B and PAC-5B. Drains under Hwy 101 via culvert. Wetland located at bottom of steep ravine near Episcopal church. Culverted at southeast end under Range Drive. PFO at southeast end, PEM near Hwy 101.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Gaultheria shallon, Vaccinium ovatum, Alnus rubra*
*Hedera helix, Rubus discolor, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-2B* |
| Data Sheet Numbers: | | Size (acres): | *0.28* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *Between Range Road and Tara Lane* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30-BB* |
| | | *1120* |
| Soil -- Mapped series: | *Depoe loam, 0-7% slopes* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Salix hookeriana* | | *Juncus balticus* |
| | *Rubus spectabilis* | | *Lysichitum americanum* |
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**Comments:** Small drainage from hills to east. Hydrologically connected to PAC-2A and PAC-2C. Separated from other portions of same wetland by Range Drive and Tara Lane. Drains west. Thickly vegetated with woody scrub shrub.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Gaultheria shallon, Vaccinium ovatum, Alnus rubra Hedera helix, Rubus discolor, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-2C* |
| Data Sheet Numbers: | | Size (acres): | *0.13* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *Between Tara Lane and South Mayd Lane* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-25-AA* |
| | | *2500* |
| Soil -- Mapped series: | *Depoe loam, 0-7% slopes* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Salix hookeriana* | | |
| | *Rubus spectabilis* | | |
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**Comments:** Small drainage from hills to east. Hydrologically connected to PAC-2B. Culverted under Tara Lane. Thick vegetation dominated by woody scrub shrub species. Located within residential area.

**LOCALLY SIGNIFICANT WETLAND**
Adjacent upland vegetation: *Gaultheria shallon, Vaccinium ovatum, Alnus rubra*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-3A* |
| Data Sheet Numbers: | | Size (acres): | *0.10* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *East of 101, South of Forest Way* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30-BB* |
| | | *100* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 12-50% slopes* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| | *Salix hookeriana* | | |
| | *Rubus spectabilis* | | |
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**Comments:** Small drainage from hills to east. Hydrologically connected to PAC-5B via culvert under Hwy. 101. Upslope hydrology has been altered by development, with no obvious sign of connection to upstream segment. Drains under old railroad bed to west. Located in residential and commercial area.

Adjacent upland vegetation: *Gaultheria shallon, Vaccinium ovatum, Alnus rubra, Cytisus scoparius.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

**Project Name: Waldport Local Wetlands Inventory**

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-3B* |
| Data Sheet Numbers: | | Size (acres): | *0.04* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *R4* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 30* | Tax lot(s): |
| Other: | *West of Ocean Drive* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-30-BB* |
| | | *100* |
| Soil -- Mapped series: | *Bandon fine sandy loam, 12-50% slopes* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Picea sitchensis* | *Rubus spectabilis* | | |
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**Comments:** Small drainage from hills to east. Hydrologically connected to PAC-3A, although hydrology has been altered by development at downslope end, with no obvious sign of connection. to upstream segment. Drains under old railroad bed to west. Located in residential area. Extends east to Chad Road.

Adjacent upland vegetation: *Gaultheria shallon, Vaccinium ovatum, Alnus rubra, Cytisus scoparius Tsuga heterophylla, Thuja plicata.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *March 9, 1999* | Wetland Mapping Code: | *PAC-4* |
| Data Sheet Numbers: | *19, 20* | Size (acres): | *0.12* |
| Investigator(s): | *PF,JF* | Wetland Classification(s): | *PEM, R3* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R11W, Section 19* | Tax lot(s): |
| Other: | *East of 101, South of Norwood* | |
| Hydrologic basin: | *Pacific Ocean* | *13-11-19-CC* |
| | | *143, 147, 120, 700* |
| Soil -- Mapped series: | *Depoe loam, 0-7% slopes* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Picea sitchensis* | *Rubus spectabilis* | | *Juncus bolanderi* |
| *Thuja plicata* | *Alnus rubra* | | *Juncus ensifolius* |
| | | | *Agrostis stolonifera* |
| | | | *Lotus corniculatus* |
| | | | |
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| | | | |

**Comments:** Small drainage flowing west from Norwood Heights development. Upper end has been recently disturbed with construction and installation of a culvert. Small emergent wetland at upper end appears disturbed. Becomes a nice small stream to west with good riparian area. Located in residential area. Drains under Hwy 101 to mouth of Alsea Bay. Small trail parallels stream.

Adjacent upland vegetation: *Gaultheria shallon, Vaccinium ovatum, Thuja plicata, Tsuga heterophylla.*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-5A* |
| Data Sheet Numbers: | *29, 30, 31, 32,33* | Size (acres): | *0.72* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PFO, PSS* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *South of Barre Lane, west of Hwy. 101* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25AB* |
| | | *2500, 3101, 3100* |
| Soil -- Mapped series: | *Nelscott loam, 3-12%*<br>*Depoe loam, 0-7%* | |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Picea sitchensis* | *Rubus spectabilis* | | *Carex obnupta* |
| *Pinus contorta* | *Salix hookeriana* | | |
| | *Lonicera involucrata* | | |
| | | | |
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| | | | |

**Comments:** Large wetland to the west of Hwy 101 . Drains west to beach. Hydrologically connected to PAC-5B to north via culvert and overland flow across Barre Lane.
Located in residential area with good mix of wetland types and vegetation.

**MAJOR MARSH**
Adjacent upland vegetation: *Picea sitchensis, Myrica sp., Gaultheria shallon, Vaccinium ovatum, Rhamnus purshiana, Alnus rubra, Thuja plicata, Blechnum spicant, Polystichum munitum*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Wetland Characterization Sheet

## Project Name: Waldport Local Wetlands Inventory

| | | | |
|---|---|---|---|
| Date(s) of field work: | *February 17, 1999* | Wetland Mapping Code: | *PAC-5B* |
| Data Sheet Numbers: | *34, 35* | Size (acres): | *1.71* |
| Investigator(s): | *PF,JVS* | Wetland Classification(s): | *PFO, PSS, PEM* |

| | | |
|---|---|---|
| Location -- Legal: | *T13S, R12W, Section 25* | Tax lot(s): |
| Other: | *North of Barre Lane, west of Hwy. 101* | |
| Hydrologic basin: | *Pacific Ocean* | *13-12-25 AB* |
| | | *100* |
| Soil -- Mapped series: | *Depoe loam, 0-7%* | *13-12-24DD* |
| | | *5301, 5400* |
| Hydrologic Source: | *Surface water* | |

**Dominant Wetland Vegetation**

| TREES | SHRUBS | VINES | HERBS |
|---|---|---|---|
| *Pinus contorta* | *Rubus spectabilis* | | *Carex obnupta* |
| | *Lonicera involucrata* | | *Oenanthe sarmentosa* |
| | | | *Juncus falcatus* |
| | | | |
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| | | | |

**Comments:** Large wetland to the west of Hwy 101. Drains south to PAC-5A and PAC-2A. South end is nice mix of upland and wetlands with a variety of species and snags. North end was previously determined by DSL. Area was disturbed and cleared of woody vegetation. Connected via small drain pipe and overland flow across Barre Lane to other portion of wetland to south.

**MAJOR MARSH**

Adjacent upland vegetation: *Pinus contorta, Gaultheria shallon, Vaccinium ovatum, Rhamnus purshiana, Rhododendron sp., Myrica californica, Alnus rubra, Rubus discolor, Rubus parviflorus*

Wetland Classification Codes E2FO = estuarine forested E2SS = estuarine scrub shrub E2EM = estuarine emergent
PFO = palustrine forested PSS = palustrine scrub-shrub PEM = palustrine emergent POW = palustrine open water

# Appendix B
# Wetland Determination Data Forms

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1A-1 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Nelscott loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: moderately well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 10YR 3/2 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover |
|---|---|---|
| *Thuja plicata** | FAC | 80 |
| *Tsuga heterophylla** | FACU- | 20 |

| Shrub Stratum (45%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 25 |
| *Gaultheria shallon** | FACU | 25 |
| *Pinus contorta** | FAC | 20 |
| *Tsuga heterophylla* | FACU- | 10 |
| *Vaccinium ovatum** | UPL | 20 |

| Herbaceous Stratum (35%) | Status | % Cover |
|---|---|---|
| *Equisetum arvense** | FAC | 60 |
| *Hypochaeris radicata** | FACU | 35 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*: 50%**

Criteria Met: No

**Comments:**

**Determination: Upland**

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | Number: | 8-1664 | Sample Site: | PAC-1A-2 |
|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | Date: | February 17, 1999 |
| Investigators: | PF/JVS | Township: | 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | 4 | Inches | Drainage patterns: |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: |
| Other: | channel 2 feet wide and 0.5 feet deep | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam — Hydric Soil?: No
Classification: Typic Haplorthod — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 5/2 | SD | | | vertical streaking | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (30%) | Status | % Cover | Herbaceous Stratum (70%) | Status | % Cover |
|---|---|---|---|---|---|
| *Alnus rubra** | FAC | 70 | *Juncus falcatus** | FACW- | 100 |
| *Tsuga heterophylla** | FACU- | 30 | | | |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 67%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1A-3 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Nelscott loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: moderately well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 10YR 4/6 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover |
|---|---|---|
| *Picea sitchensis** | FAC | 100 |

| Shrub Stratum (40%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 45 |
| *Pinus contorta** | FAC | 35 |
| *Vaccinium ovatum** | UPL | 20 |

| Herbaceous Stratum (40%) | Status | % Cover |
|---|---|---|
| *Achillea millefolium** | FACU | 20 |
| *Fragaria chiloensis** | UPL | 50 |
| *Hypochaeris radicata* | FACU | 10 |
| *Pteridium aquilinum** | FACU | 20 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 14%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1A-4 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | 3 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-15 | 10YR 5/2 | SD | | | strong organic streaking | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|
| *Juncus balticus** | FACW+ | 60 |
| *Juncus falcatus** | FACW- | 40 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 100%
Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | Number: | 8-1664 | Sample Site: | PAC-1A-5 |
|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | Date: | February 17, 1999 |
| Investigators: | PF/JVS | Township: | 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | 2 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/2 | organic muck | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (15%) | Status | % Cover |
|---|---|---|
| *Ledum glandulosum** | FACW+ | 35 |
| *Spirea douglasii** | FACW | 65 |

| Herbaceous Stratum (85%) | Status | % Cover |
|---|---|---|
| *Juncus balticus** | FACW+ | 40 |
| *Carex obnupta** | OBL | 60 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 100%
Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1A-6 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Nelscott loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: moderately well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 5YR 3/3 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (70%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 20 |
| *Pinus contorta** | FAC | 30 |
| *Gaultheria shallon** | FACU | 30 |
| *Vaccinium ovatum** | UPL | 20 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Agrostis sp.** | FAC | 30 |
| *Hypochaeris radicata** | FACU | 70 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Rubus ursinus** | FACU | 100 |

**Percent of dominant species FAC, FACW, or OBL*:** 29%

Criteria Met: No

**Comments:**

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1C-7 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 9, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| Primary Indicators | | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | Yes |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-10 | 10YR 3/2 | SL | | | | |
| 10-16 | 10YR 3/1 | SCL | 7.5YR 4/6 | common, medium, prominent | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (20%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 40 |
| *Rubus spectabilis** | FAC+ | 60 |

| Herbaceous Stratum (80%) | Status | % Cover |
|---|---|---|
| *Juncus effusus** | FACW | 50 |
| *Lotus corniculatus** | FAC | 20 |
| *Scirpus microcarpus** | OBL | 30 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | Number: | 8-1664 | Sample Site: | PAC-1C-8 |
|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | Date: | March 9, 1999 |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | dry soil | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 7.5YR 2/2 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (50%) | Status | % Cover |
|---|---|---|
| *Pinus contorta** | FAC | 20 |
| *Thuja plicata** | FAC | 20 |
| *Tsuga heterophylla** | FACU- | 60 |

| Shrub Stratum (50%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 60 |
| *Myrica gale* | OBL | 10 |
| *Rhododendron macrophyllum* | UPL | 10 |
| *Rubus spectabilis** | FAC+ | 20 |

| Herbaceous Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 60%

Criteria Met: Yes

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1D-9 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 9, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 6 | Inches | Drainage patterns: | |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-8 | 10YR 4/2 | SD | | | | |
| 8-14 | 2.5Y 5/2 | SD | 7.5YR 4/4 | | organic streaking | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|
| *Carex obnupta** | OBL | 70 |
| *Juncus acuminatus** | OBL | 20 |
| *Juncus effusus* | FACW | 10 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: | PAC-1D-10 |
|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | Date: | March 9, 1999 |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Bandon fine sandy loam — Hydric Soil?: No
Classification: Typic Haplorthod — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 10YR 3/4 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (80%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 40 |
| *Gaultheria shallon** | FACU | 20 |
| *Pinus contorta* | FAC | 10 |
| *Rubus spectabilis** | FAC+ | 30 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Anaphalis margaritacea** | UPL | 40 |
| *Hypochaeris radicata** | FACU | 60 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 20%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1G-11 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 9, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| Primary Indicators | | | Secondary Indicators | |
|---|---|---|---|---|
| **Inundated (Yes/No):** | Yes | | **Water marks:** | |
| **Depth of inundation:** | 4 | Inches | **Drift lines:** | |
| **Depth to free water:** | | Inches | **Drainage patterns:** | Yes |
| **Depth to saturation:** | | Inches | **Oxidized rhizospheres:** | |
| **Other:** | flowing water | | **Sediment deposits:** | |

**Criteria Met:** Yes

**SOILS**

**Mapped Series:** Bandon fine sandy loam — **Hydric Soil?:** No
**Classification:** Typic Haplorthod — **Drainage Class:** well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 10YR 2/2 | | 10YR 3/6 | few, fine, faint | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met:** Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (5%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 100 |

| Herbaceous Stratum (95%) | Status | % Cover |
|---|---|---|
| *Epilobium watsonii* | FACW- | 10 |
| *Juncus bolanderi** | OBL | 70 |
| *Juncus effusus* | FACW | 10 |
| *Lotus corniculatus* | FAC | 10 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100% — **Criteria Met:** Yes

**Comments:** totally logged area

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1G-12 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 9, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 7.5YR 3/3 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (90%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 20 |
| *Gaultheria shallon** | FACU | 60 |
| *Rubus spectabilis** | FAC+ | 20 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Hypochaeris radicata** | FACU | 100 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 25%
Criteria Met: No

Comments: totally logged area with slash piles

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1H-13 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 0 | Inches | Drainage patterns: | |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-5 | 10YR 4/3 | SD | | | | |
| 5-14 | 5Y 2.5/1 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|
| *Equisetum arvense* | FAC | 15 |
| *Juncus balticus** | FACW+ | 25 |
| *Juncus effusus** | FACW | 45 |
| *Juncus ensifolius* | FACW | 10 |
| *Lotus corniculatus* | FAC | 5 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100%

Criteria Met: Yes

**Comments:** totally logged area with slash piles

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-UH-14 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations: Color | Redox Concentrations: abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 7.5YR 3/3 | SDL | 10YR 4/6 | few, coarse, distinct | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (40%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 80 |
| *Gaultheria shallon* | FACU | 5 |
| *Rubus spectabilis* | FAC+ | 15 |

| Herbaceous Stratum (60%) | Status | % Cover |
|---|---|---|
| *Achillea millefolium* | FACU | 5 |
| *Agrostis tenuis** | FAC | 40 |
| *Anthoxanthum odoratum** | FACU | 20 |
| *Bromus sp.* | UPL | 15 |
| *Hypochaeris radicata** | FACU | 20 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 25%

Criteria Met: No

**Comments:**

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1K-15 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-6 | 10YR 3/4 | SD | | | | |
| 6-9 | 7.5YR 2.5/3 | SDL | | | | |
| 9-14 | 10YR 3/6 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (60%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 50 |
| *Gaultheria shallon** | FACU | 30 |
| *Pinus contorta** | FAC | 20 |

| Herbaceous Stratum (30%) | Status | % Cover |
|---|---|---|
| *Agrostis tenuis** | FAC | 40 |
| *Hypochaeris radicata** | FACU | 60 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 33%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-1K-16 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: | |
| Depth of inundation: | 5 | Inches | Drift lines: | |
| Depth to free water: | 0 | Inches | Drainage patterns: | |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-5 | 10YR 4/4 | SD | | | | |
| 5-10 | 10YR 3/2 | SD | | | | |
| 10-14 | 10YR 4/1 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (20%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 35 |
| *Pinus contorta** | FAC | 35 |
| *Rubus spectabilis** | FAC+ | 30 |

| Herbaceous Stratum (70%) | Status | % Cover |
|---|---|---|
| *Juncus effusus* | FACW | 10 |
| *Juncus ensifolius** | FACW | 20 |
| *Scirpus sp.** | OBL | 70 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 83%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-2A-17 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/2 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (10%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (40%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 50 |
| *Vaccinium ovatum** | UPL | 50 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Polystichum munitum** | FACU | 100 |

| Woody Vine Stratum (40%) | Status | % Cover |
|---|---|---|
| *Hedera helix** | UPL | 50 |
| *Rubus discolor** | FACU | 50 |

Percent of dominant species FAC, FACW, or OBL*: 17%
Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-2A-18 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | 0.5 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations: Color | Redox Concentrations: abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/2 | organic muck | | | sulfidic odor | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover | Herbaceous Stratum (80%) | Status | % Cover |
|---|---|---|---|---|---|
| *Picea sitchensis** | FAC | 100 | *Juncus balticus** | FACW+ | 80 |
| | | | *Lysichitum americanum** | OBL | 20 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-4-19 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 9, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe silt loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 7.5YR 3/3 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (25%) | Status | % Cover |
|---|---|---|
| *Thuja plicata** | FAC | 50 |
| *Tsuga heterophylla** | FACU- | 50 |

| Shrub Stratum (65%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius* | UPL | 15 |
| *Gaultheria shallon** | FACU | 80 |
| *Vaccinium ovatum* | UPL | 5 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Blechnum spicant** | FAC+ | 50 |
| *Hypochaeris radicata** | FACU | 50 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 40%
Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-4-20 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 9, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: | |
| Depth of inundation: | 2 | Inches | Drift lines: | |
| Depth to free water: | 0 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: | | | Sediment deposits: | Yes |

Criteria Met: Yes

**SOILS**

Mapped Series: Depoe silt loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-12 | 10YR 3/2 | SDL | | | | recent sediment deposits |
| 12+ | 10YR 3/1 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Agrostis stolonifera** | FAC | 20 |
| | | | *Juncus bolanderi** | OBL | 30 |
| | | | *Juncus ensifolius** | FACW | 20 |
| | | | *Lotus corniculatus* | FAC | 10 |
| | | | *Trifolium repens** | FAC | 20 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-2A-21 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | 0 | Inches | Drainage patterns: |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Ferrelo loam
Classification: Typic Haplumbrept
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-4 | 10YR 3/2 | organic muck | | | strong sulfidic odor | |
| 4-14 | 10YR 4/1 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (25%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 50 |
| *Picea sitchensis** | FAC | 50 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 20 |
| *Rubus spectabilis** | FAC+ | 80 |

| Herbaceous Stratum (45%) | Status | % Cover |
|---|---|---|
| *Athyrium filix-femina** | FAC | 30 |
| *Carex obnupta** | OBL | 40 |
| *Lysichitum americanum** | OBL | 30 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 86%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-2A-22 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe silt loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 4-0 | | organic duff | | | | |
| 0-14 | 7.5YR 2.5/3 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover |
|---|---|---|
| *Tsuga heterophylla** | FACU- | 100 |

| Shrub Stratum (50%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 40 |
| *Rubus spectabilis* | FAC+ | 10 |
| *Vaccinium ovatum** | UPL | 30 |
| *Vaccinium parvifolium** | UPL | 20 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Blechnum spicant** | FAC+ | 100 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Rubus ursinus** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 17%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-2A-23 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 18, 1999 | |
| Investigators: | PF/JVS | Township: | 13S | Range: 11W | Section: | 19 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | Yes |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 4 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Ferrelo loam — Hydric Soil?: No
Classification: Typic Haplumbrept — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-9 | 10YR 4/3 | SD | | | | |
| 9+ | 10YR 3/1 | SD | | | | organic streaking |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (40%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 100 |

| Herbaceous Stratum (30%) | Status | % Cover |
|---|---|---|
| *Carex obnupta** | OBL | 50 |
| *Lysichitum americanum** | OBL | 50 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100%

Criteria Met: Yes

**Comments:**

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-2A-24 |
|---|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 18, 1999 |
| Investigators: | PF/JVS | Township: | 13S | Range: 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe silt loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 5/4 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (60%) | Status | % Cover |
|---|---|---|
| *Tsuga heterophylla** | FACU- | 100 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 80 |
| *Rubus spectabilis** | FAC+ | 20 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Polystichum munitum** | FACU | 100 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 25%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-2A-25 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 17, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: 11W | Section: | 19 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 2 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Ferrelo loam — Hydric Soil?: No
Classification: Typic Haplumbrept — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 4/3 | SD | | | | 50% |
| 0-14 | 5/10Y | SD | 2.5Y 5/6 | common, coarse, prominent | | 30% |
| 0-14 | 10YR 2/2 | S | 5YR 3/4 | common, medium, prominent | | 20% |
| | | | | | sulfidic odor | mixed soil |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (10%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 80 |
| *Rubus spectabilis** | FAC+ | 20 |

| Herbaceous Stratum (90%) | Status | % Cover |
|---|---|---|
| *Equisetum arvense** | FAC | 40 |
| *Holcus lanatus* | FAC | 10 |
| *Juncus balticus* | FACW+ | 10 |
| *Juncus patens* | FACW | 10 |
| *Scirpus microcarpus** | OBL | 30 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 100% — Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-2A-26 |
|---|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 17, 1998 |
| Investigators: | JF/CR | Township: | 13S | Range: 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe silt loam — Hydric Soil?: Yes
Classification: Sideric Tropaquod — Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 10YR 4/3 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 100 |

| Herbaceous Stratum (40%) | Status | % Cover |
|---|---|---|
| *Conyza canadensis** | FACU | 30 |
| *Equisetum arvense** | FAC | 50 |
| *Hypochaeris radicata** | FACU | 20 |

| Woody Vine Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 50 |
| *Rubus ursinus** | FACU | 50 |

Percent of dominant species FAC, FACW, or OBL*: 33% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-3-27 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 2 | Inches | Drainage patterns: | |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Fendall gravelly clay loam
Classification: Andic Humitropept
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-8 | 2.5Y 4/2 | SD | 7.5YR 4/6 | many, medium, prominent | | |
| 8-10 | 5Y 4/1 | SD | 7.5YR 4/6 | common, medium, distinct | | |
| 10-14 | 2.5Y 4/2 | SD | 7.5YR 4/6 | common, medium, distinct | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (95%) | Status | % Cover |
|---|---|---|
| *Agrostis tenuis** | FAC | 20 |
| *Equisetum arvense* | FAC | 10 |
| *Juncus balticus* | FACW+ | 15 |
| *Juncus bufonius* | FACW | 10 |
| *Juncus patens** | FACW | 40 |
| *Poa annua* | FAC | 5 |

| Woody Vine Stratum (5%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

**Percent of dominant species FAC, FACW, or OBL*:** 67%

Criteria Met: Yes

**Comments:**

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-3-28 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 17, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: | 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Fendall gravelly clay loam
Classification: Andic Humitropept
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations | | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| | | | Color | abundance/size/contrast | | |
| 0-14 | 10YR 3/6 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (5%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Herbaceous Stratum (70%) | Status | % Cover |
|---|---|---|
| *Agrostis tenuis** | FAC | 20 |
| *Anthoxanthum odoratum** | FACU | 20 |
| *Festuca arundinacea* | FAC- | 10 |
| *Holcus lanatus* | FAC | 10 |
| *Hypochaeris radicata** | FACU | 30 |
| *Trifolium pratense* | FACU | 10 |

| Woody Vine Stratum (25%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 40%
Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | PAC-5A-29 |
|---|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 17, 1999 |
| Investigators: | PF/JVS | Township: | 13S | Range: 12W | Section: | 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Nelscott loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: moderately well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 5/2 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (60%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius* | UPL | 10 |
| *Gaultheria shallon** | FACU | 60 |
| *Vaccinium parvifolium** | UPL | 30 |

| Herbaceous Stratum (40%) | Status | % Cover |
|---|---|---|
| *Ammophila arenaria** | FACU | 100 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 0%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | PAC-5A-30 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 17, 1999 | |
| Investigators: | PF/JVS | Township: | 13S | Range: | 12W | Section: | 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | 2 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/2 | muck | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (90%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 20 |
| *Lonicera involucrata** | FAC+ | 30 |
| *Salix hookeriana** | FACW | 50 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Carex obnupta** | OBL | 100 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 75%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | PAC-5A-31 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 17, 1999 | |
| Investigators: | PF/JVS | Township: | 13S | Range: 12W | Section: | 25 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >17 | Inches | Drainage patterns: |
| Depth to saturation: | >17 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-17 | 2.5Y 2.5/2 | | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (40%) | Status | % Cover |
|---|---|---|
| *Picea sitchensis** | FAC | 40 |
| *Pinus contorta** | FAC | 60 |

| Shrub Stratum (50%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 40 |
| *Myrica gale** | OBL | 20 |
| *Rhamnus purshiana** | FAC- | 20 |
| *Rubus parviflorus** | FAC- | 20 |

| Herbaceous Stratum (5%) | Status | % Cover |
|---|---|---|
| *Polystichum munitum** | FACU | 100 |

| Woody Vine Stratum (5%) | Status | % Cover |
|---|---|---|
| *Hedera helix** | UPL | 30 |
| *Rubus ursinus** | FACU | 70 |

Percent of dominant species FAC, FACW, or OBL*: 33%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-5A-32 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | < 1 | Inches | Drainage patterns: |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-4 | 10YR 3/2 | SDL | | | | |
| 4-16 | 10YR 4/2 | SDL | | | organic streaking | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (30%) | Status | % Cover | Herbaceous Stratum (50%) | Status | % Cover |
|---|---|---|---|---|---|
| *Pinus contorta** | FAC | 100 | *Carex obnupta** | OBL | 100 |
| **Shrub Stratum (20%)** | **Status** | **% Cover** | | | |
| *Rubus spectabilis** | FAC+ | 100 | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | PAC-5A-33 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 17, 1999 | |
| Investigators: | PF/JVS | Township: | 13S | Range: 12W | Section: | 25 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| **Inundated (Yes/No):** | No | | **Water marks:** | |
| **Depth of inundation:** | | Inches | **Drift lines:** | Yes |
| **Depth to free water:** | 2 | Inches | **Drainage patterns:** | Yes |
| **Depth to saturation:** | 0 | Inches | **Oxidized rhizospheres:** | |
| **Other:** | evidence of ponding | | **Sediment deposits:** | |

**Criteria Met:** Yes

**SOILS**

**Mapped Series:** Depoe loam — **Hydric Soil?:** Yes
**Classification:** Sideric Tropaquod — **Drainage Class:** poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-5 | 10YR 3/3 | SDL | | | | |
| 5+ | 5Y 3/1 | | | | organic streaking<br>sulfidic odor | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met:** Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (20%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 100 |

| Herbaceous Stratum (80%) | Status | % Cover |
|---|---|---|
| *Carex obnupta** | OBL | 95 |
| *Lysichitum americanum* | OBL | 5 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100%

**Criteria Met:** Yes

**Comments:** mostly bare sand with lots of downed wood

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-5B-34 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | JF/CR/PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe loam — Hydric Soil?: Yes
Classification: Sideric Tropaquod — Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 4-0 | | duff | | | | |
| 0-16 | 10YR 2/2 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (60%) | Status | % Cover |
|---|---|---|
| *Pinus contorta** | FAC | 100 |

| Shrub Stratum (40%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 60 |
| *Rubus spectabilis** | FAC+ | 30 |
| *Vaccinium ovatum* | UPL | 10 |

| Herbaceous Stratum (0%) | Status | % Cover |
|---|---|---|

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|

Percent of dominant species FAC, FACW, or OBL*: 67% — Criteria Met: Yes

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: PAC-5B-35 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: February 17, 1999 |
| Investigators: | PF/JVS | Township: 13S | Range: 12W | Section: 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | 2 | Inches | Drainage patterns: |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-10 | 10YR 4/2 | S | 7.5YR 4/6 | common, medium, distinct | | |
| 10-16 | 10YR 2/2 | SDL | 10YR 2/1 | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (35%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 100 |

| Herbaceous Stratum (65%) | Status | % Cover |
|---|---|---|
| *Carex obnupta** | OBL | 50 |
| *Juncus sp.** | FACW | 30 |
| *Oenanathe sarmentosa** | OBL | 20 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 75%

Criteria Met: Yes

**Comments:**

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-4B-36 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 16, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: | 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| **Inundated (Yes/No):** | Yes | | **Water marks:** | |
| **Depth of inundation:** | 3 | **Inches** | **Drift lines:** | |
| **Depth to free water:** | 0 | **Inches** | **Drainage patterns:** | Yes |
| **Depth to saturation:** | 0 | **Inches** | **Oxidized rhizospheres:** | |
| **Other:** | channel 12 feet wide | | **Sediment deposits:** | |

**Criteria Met:** Yes

**SOILS**

**Mapped Series:** Tidal Marsh — **Hydric Soil?:** Yes

**Classification:** — **Drainage Class:**

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-9 | 10YR 3/3 | SL | | | | |
| 9-14 | 10YR 3/2 | SD | 7.5YR 4/6 | common, coarse, prominent | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met:** Yes

**VEGETATION**

| Tree Stratum ( 0% ) | Status | % Cover | Herbaceous Stratum ( 100% ) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Agrostis tenuis** | FAC | 25 |
| | | | *Carex obnupta** | OBL | 60 |
| | | | *Festuca arundinacea* | FAC- | 5 |
| | | | *Juncus patens* | FACW | 10 |
| **Shrub Stratum ( 0% )** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum ( 0% )** | **Status** | **% Cover** |
| | | | | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100%

**Criteria Met:** Yes

**Comments:** lots of unvegetated water

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-4B-37 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh — Hydric Soil?: Yes
Classification: — Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 7.5YR 3/2 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover |
|---|---|---|
| *Pinus contorta** | FAC | 100 |

| Shrub Stratum (20%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 100 |

| Herbaceous Stratum (60%) | Status | % Cover |
|---|---|---|
| *Bromus sp.* | UPL | 10 |
| *Festuca arundinacea** | FAC- | 85 |
| *Hypochaeris radicata* | FACU | 5 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 33% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-5-38 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh — Hydric Soil?: Yes

Classification: — Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 4/2 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (15%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (5%) | Status | % Cover |
|---|---|---|
| *Ilex aquifolium** | UPL | 100 |

| Herbaceous Stratum (75%) | Status | % Cover |
|---|---|---|
| *Dactylis glomerata** | FACU | 30 |
| *Festuca arundinacea** | FAC- | 30 |
| *Hedera helix* | UPL | 10 |
| *Holcus lanatus** | FAC | 30 |

| Woody Vine Stratum (5%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 33% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-5-39 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 17, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: 11W | Section: | 20 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | < 10 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Tidal Marsh
Classification:
Hydric Soil?: Yes
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-5 | 7.5YR 2.5/2 | SL | | | | |
| 5-10 | 2.5Y 4/3 | SD | 10YR 4/6 | common, medium, distinct | | |
| 10-14 | 2.5Y 4/2 | S | 7.5YR 3/4 | common, medium, prominent | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Agrostis tenuis** | FAC | 20 |
| | | | *Festuca arundinacea* | FAC- | 10 |
| | | | *Holcus lanatus** | FAC | 50 |
| | | | *Phalaris arundinacea* | FACW | 10 |
| | | | *Ranunculus repens* | FACW | 10 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-6-40 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 10, 1999 | |
| Investigators: | JF/PF | Township: | 13S | Range: | 11W | Section: | 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 6 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Fendall gravelly clay loam — Hydric Soil?: No
Classification: Andic Humitropept — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-8 | 10YR 3/3 | SDL | | | | |
| 8-16 | 5Y 4/1 | SDL | 10YR 4/6 | few, coarse, distinct | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (30%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (50%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 50 |
| *Rubus spectabilis** | FAC+ | 50 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Lysichitum americanum** | OBL | 60 |
| *Scirpus microcarpus** | OBL | 40 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100%

Criteria Met: Yes

**Comments:**

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-6-41 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 10, 1999 | |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: | 20 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Fendall gravelly clay loam — Hydric Soil?: No
Classification: Andic Humitropept — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 4/5 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (30%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (40%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 60 |
| *Sambucus racemosa** | FACU | 40 |

| Herbaceous Stratum (30%) | Status | % Cover |
|---|---|---|
| *Polystichum munitum** | FACU | 100 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 50% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-7-42 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 10, 1999 | |
| Investigators: | JF/PF | Township: | 13S | Range: | 11W | Section: | 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| **Inundated (Yes/No):** | No | | **Water marks:** | |
| **Depth of inundation:** | | **Inches** | **Drift lines:** | |
| **Depth to free water:** | 2 | **Inches** | **Drainage patterns:** | |
| **Depth to saturation:** | 0 | **Inches** | **Oxidized rhizospheres:** | Yes |
| **Other:** | | | **Sediment deposits:** | |

**Criteria Met:** Yes

**SOILS**

**Mapped Series:** Fendall gravelly clay loam — **Hydric Soil?:** No

**Classification:** Andic Humitropept — **Drainage Class:** well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations | | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| | | | Color | abundance/size/contrast | | |
| 0-16 | 10YR 3/2 | SDL | 7.5YR 4/6 | few, medium, distinct | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met:** Yes

**VEGETATION**

| Tree Stratum (50%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 80 |
| *Sambucus racemosa** | FACU | 20 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Athyrium filix-femina* | FAC | 10 |
| *Cardamine angulata* | FACW | 10 |
| *Equisetum hyemale** | FACW | 20 |
| *Lysichitum americanum** | OBL | 60 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 80%

**Criteria Met:** Yes

**Comments:**

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | | Sample Site: | ALS-7-43 |
| Applicant: | City of Waldport | County: | Lincoln | | | Date: | March 10, 1999 |
| Investigators: | JF/PF | Township: | 13S | Range: | 11W | Section: | 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >13 | Inches | Drainage patterns: |
| Depth to saturation: | >13 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Fendall gravelly clay loam — Hydric Soil?: No
Classification: Andic Humitropept — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 2-0 | | duff | | | | |
| 0-13 | 10YR 3/3 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (40%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 20 |
| *Picea sitchensis** | FAC | 40 |
| *Tsuga heterophylla** | FACU- | 40 |

| Shrub Stratum (45%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 80 |
| *Sambucus racemosa** | FACU | 20 |

| Herbaceous Stratum (5%) | Status | % Cover |
|---|---|---|
| *Polystichum munitum** | FACU | 100 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Hedera helix** | UPL | 100 |

Percent of dominant species FAC, FACW, or OBL*: 43% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-8-44 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 10, 1999 | |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: | 20 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| **Inundated (Yes/No):** | No | | **Water marks:** |
| **Depth of inundation:** | | Inches | **Drift lines:** |
| **Depth to free water:** | 6 | Inches | **Drainage patterns:** |
| **Depth to saturation:** | 0 | Inches | **Oxidized rhizospheres:** |
| **Other:** | | | **Sediment deposits:** |

**Criteria Met:** Yes

**SOILS**

**Mapped Series:** Lint silty clay loam
**Classification:** Alic Fulvudand
**Hydric Soil?:** No
**Drainage Class:** well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 2.5Y 3/1 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met:** Yes

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (40%) | Status | % Cover |
|---|---|---|
| *Juncus effusus* | FACW | 5 |
| *Phalaris arundinacea** | FACW | 95 |

| Woody Vine Stratum (40%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

**Percent of dominant species FAC, FACW, or OBL*:** 67%
**Criteria Met:** Yes

**Comments:**

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-8-45 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 10, 1999 | |
| Investigators: | JF/PF | Township: | 13S | Range: | 11W | Section: | 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Knappa silt loam
Classification: Typic Humitropept
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-6 | 10YR 3/3 | SD | | | | |
| 6-16 | 10YR 4/6 | | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (30%) | Status | % Cover |
|---|---|---|
| *Picea sitchensis** | FAC | 100 |

| Shrub Stratum (10%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 100 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Pteridium aquilinum** | FACU | 100 |

| Woody Vine Stratum (50%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 25%

Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-8-46 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 10, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | < 1 | Inches | Drainage patterns: |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Lint silty clay loam
Classification: Alic Fulvudand
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 5Y 3/1 | SCL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum ( 0% ) | Status | % Cover | Herbaceous Stratum ( 80% ) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Carex obnupta** | OBL | 40 |
| | | | *Phalaris arundinacea** | FACW | 60 |
| **Shrub Stratum ( 0% )** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum ( 20% )** | **Status** | **% Cover** |
| | | | *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 67%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-9-47 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 18, 1999 | |
| Investigators: | PF/JVS | Township: | 13S | Range: 11W | Section: | 18 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 2 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Fendall gravelly clay loam — Hydric Soil?: No
Classification: Andic Humitropept — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations: Color | Redox Concentrations: abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/1 | SDL | | | | organic material in upper 3 inches |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (60%) | Status | % Cover | Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|---|---|---|
| *Alnus rubra** | FAC | 100 | *Polystichum munitum** | FACU | 100 |
| **Shrub Stratum (30%)** | **Status** | **% Cover** | | | |
| *Rubus spectabilis** | FAC+ | 100 | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 67% — Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | | Sample Site: | ALS-9-48 |
| Applicant: | City of Waldport | County: | Lincoln | | | Date: | February 18, 1999 |
| Investigators: | PF/JVS | Township: | 13S | Range: | 11W | Section: | 18 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

**Criteria Met: No**

**SOILS**

**Mapped Series:** Fendall gravelly clay loam **Hydric Soil?:** No
**Classification:** Andic Humitropept **Drainage Class:** well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 2-0 | | duff | | | | |
| 0-16 | 10YR 3/3 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met: No**

**VEGETATION**

| Tree Stratum (60%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 40 |
| *Picea sitchensis** | FAC | 30 |
| *Tsuga heterophylla** | FACU- | 30 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus spectabilis** | FAC+ | 100 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Polystichum munitum** | FACU | 100 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

**Percent of dominant species FAC, FACW, or OBL*:** 60% **Criteria Met: Yes**

**Comments:**

**Determination: Upland**

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | PAC-1M-49 |
|---|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | | Date: | February 17, 1999 |
| Investigators: | PF/JVS | Township: | 13S | Range: 11W | Section: | 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | 2 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam — Hydric Soil?: No
Classification: Typic Haplorthod — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/1 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Juncus balticus** | FACW+ | 90 |
| | | | *Carex obnupta* | OBL | 10 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | PAC-1C-50 |
|---|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 9, 1999 |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: | 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | 2 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | flowing water in small depression | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Bandon fine sandy loam — Hydric Soil?: No
Classification: Typic Haplorthod — Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 1-0 | organic layer | | | | | |
| 0-16 | 10YR 3/2 | SD | | | organic streaks | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Juncus effusus** | FACW | 20 |
| | | | *Juncus bolanderi** | OBL | 30 |
| | | | *Juncus falcatus** | FACW- | 50 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | PAC-1C-51 |
|---|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | | Date: | March 10, 1999 |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: | 25 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Bandon fine sandy loam
Classification: Typic Haplorthod
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-6 | 7.5YR 3/3 | SD | coarse | | | |
| 6-12 | 10YR 3/1 | duff/wood debris | | | | |
| 12-14 | 7.5YR 3/2 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (70%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 20 |
| *Gaultheria shallon** | FACU | 20 |
| *Pinus contorta** | FAC | 20 |
| *Rubus spectabilis** | FAC+ | 20 |
| *Vaccinium ovatum** | UPL | 20 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Athyrium filix-femina** | FAC | 100 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

**Percent of dominant species FAC, FACW, or OBL*:** 43%

Criteria Met: Upland

**Comments:**

Determination:

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | 52 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 16, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: 11W | Section: | 30 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-6 | 10YR 3/2 | SDL | | | | |
| 6-14 | 10YR 4/6 | SD | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Agrostis tenuis* | FAC | 10 |
| | | | *Festuca arundinacea* | FAC- | 10 |
| | | | *Hypochaeris radicata** | FACU | 20 |
| | | | *Plantago major** | FACU+ | 30 |
| | | | *Poa annua** | FAC | 20 |
| | | | *Prunella vulgaris* | FACU+ | 10 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 33%

Criteria Met: No

**Comments:**
On edge of non-jurisdictional ditch

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: 53 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: | 13S Range: 11W | Section: 30 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: | |
| Depth of inundation: | 1 | Inches | Drift lines: | |
| Depth to free water: | 0 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: | in ditch < 1 foot deep and 2 feet wide | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Depoe loam
Classification: Sideric Tropaquod
Hydric Soil?: Yes
Drainage Class: poorly drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-9 | 5Y 5/1 | SD | 10YR 5/6 | common, coarse, distinct | | refusal at 9 inches on compacted soil |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Lotus corniculatus** | FAC | 35 |
| | | | *Sisyrinchium californicum** | FACW+ | 65 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%
Criteria Met: Yes

**Comments:**

Excavated ditch - non jurisdictional wetland

Determination: Artificial Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-12A-54 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 17 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | Yes |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 2 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | |
| Other: algal mats | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Tidal Marsh
Classification:
Hydric Soil?: Yes
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 2.5Y 3/3 | SD | | | organic streaking | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Salicornia virginica** | OBL | 70 |
| | | | *Scirpus maritimus** | OBL | 30 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-12A-55 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 18 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh — Hydric Soil?: Yes
Classification: — Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 7.5YR 3/3 | SDL | | | | gravelly fill material |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Geranium carolinianum* | UPL | tr |
| | | | *Hypochaeris radicata* | FACU | tr |
| | | | *Poa annua** | FAC | 95 |
| | | | *Rumex acetosella* | FACU+ | tr |
| | | | *Trifolium repens* | FAC | tr |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100% — Criteria Met: Yes

Comments: mowed lawn

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-12A-56 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 17, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: | 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| **Inundated (Yes/No):** | No | | **Water marks:** | |
| **Depth of inundation:** | | **Inches** | **Drift lines:** | |
| **Depth to free water:** | 0 | **Inches** | **Drainage patterns:** | Yes |
| **Depth to saturation:** | 0 | **Inches** | **Oxidized rhizospheres:** | |
| **Other:** | | | **Sediment deposits:** | |

**Criteria Met:** Yes

**SOILS**

**Mapped Series:** Tidal Marsh — **Hydric Soil?:** Yes

**Classification:** — **Drainage Class:**

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-12 | 2.5/N | S | | | | gravel from adjacent |
| 12-14+ | 3/10Y | SD | | | | fill slope |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

**Criteria Met:** Yes

**VEGETATION**

| Tree Stratum ( 0% ) | Status | % Cover | Herbaceous Stratum ( 100% ) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Salicornia virginica** | OBL | 100 |
| **Shrub Stratum ( 0% )** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum ( 0% )** | **Status** | **% Cover** |
| | | | | | |

**Percent of dominant species FAC, FACW, or OBL*:** 100% — **Criteria Met:** Yes

**Comments:** 90% bare ground with algae

**Determination:** Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | | Number: | 8-1664 | Sample Site: | ALS-12A-57 |
| Applicant: | City of Waldport | County: | Lincoln | | | Date: | November 17, 1998 |
| Investigators: | JF/CR | Township: | 13S | Range: | 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh — Hydric Soil?: Yes
Classification: — Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 3/2 | SL | | | | gravel road fill adjacent to pavement |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (15%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 100 |

| Herbaceous Stratum (70%) | Status | % Cover |
|---|---|---|
| *Daucus carota** | UPL | 20 |
| *Festuca arundinacea** | FAC- | 80 |

| Woody Vine Stratum (15%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 50 |
| *Rubus laciniatus** | FACU+ | 50 |

**Percent of dominant species FAC, FACW, or OBL*:** 0% — Criteria Met: No

**Comments:**

**Determination: Upland**

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-12A-58 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh
Hydric Soil?: Yes
Classification:
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-16 | 10YR 3/3 | SL | | | | gravelly |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (35%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (15%) | Status | % Cover |
|---|---|---|
| *Ilex aquifolium* | UPL | 15 |
| *Prunus laurocerasus** | UPL | 30 |
| *Sambucus racemosa** | FACU | 30 |

| Herbaceous Stratum (20%) | Status | % Cover |
|---|---|---|
| *Phalaris arundinacea** | FACW | 80 |
| *Polystichum munitum** | FACU | 20 |

| Woody Vine Stratum (30%) | Status | % Cover |
|---|---|---|
| *Hedera helix** | UPL | 25 |
| *Rubus discolor** | FACU | 25 |
| *Rubus ursinus** | FACU | 50 |

**Percent of dominant species FAC, FACW, or OBL*:** 25%

Criteria Met: No

**Comments:**

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-12A-59 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 1 | Inches | Drainage patterns: | Yes |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Tidal Marsh
Classification:
Hydric Soil?: Yes
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-6 | 2.5Y 3/3 | SD | | | | |
| 6-10 | 7.5YR 2.5/2 | SC | | | >50% organic | |
| 10-14 | 10YR 3/2 | SC | 10YR 3/6 | common, medium, distinct | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover | Herbaceous Stratum (80%) | Status | % Cover |
|---|---|---|---|---|---|
| *Alnus rubra** | FAC | 100 | *Agrostis stolonifera** | FAC | 20 |
| | | | *Deschampsia cespitosa** | FACW | 20 |
| | | | *Juncus patens** | FACW | 20 |
| | | | *Oenanthe sarmentosa** | OBL | 20 |
| | | | *Phalaris arundinacea** | FACW | 20 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: | 8-1664 | Sample Site: | ALS-12A-60 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | November 16, 1998 | |
| Investigators: | JF/CR | Township: | 13S | Range: | 11W | Section: | 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | 2 | Inches | Drainage patterns: | |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Tidal Marsh
Classification:
Hydric Soil?: Yes
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-4 | 10YR 2/2 | SL | | | | |
| 4-14 | 10YR 3/2 | S | 10YR 5/6 | common, medium, prominent | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Aster sp.** | FAC | 20 |
| | | | *Deschampsia cespitosa** | FACW | 70 |
| | | | *Potentilla anserina* | OBL | 10 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-12A-61 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 16, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >12 | Inches | Drainage patterns: |
| Depth to saturation: | >12 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh — Hydric Soil?: Yes

Classification: — Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 3-0 | | organic duff | | | | |
| 0-12 | 10YR 3/2 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (35%) | Status | % Cover |
|---|---|---|
| *Picea sitchensis** | FAC | 100 |

| Shrub Stratum (60%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 20 |
| *Vaccinium ovatum** | UPL | 80 |

| Herbaceous Stratum (0%) | Status | % Cover |
|---|---|---|

| Woody Vine Stratum (5%) | Status | % Cover |
|---|---|---|
| *Hedera helix** | UPL | 100 |

Percent of dominant species FAC, FACW, or OBL*: 25% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | Waldport LWI | | Number: 8-1664 | | Sample Site: | ALS-12A-62 | |
| Applicant: | City of Waldport | County: | Lincoln | | Date: | October 20, 1998 | |
| Investigators: | PF/JVS | Township: | 13S | Range: 11W | Section: | 19 | |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators | |
|---|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: | |
| Depth of inundation: | | Inches | Drift lines: | |
| Depth to free water: | | Inches | Drainage patterns: | |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: | Yes |
| Other: | | | Sediment deposits: | |

Criteria Met: Yes

**SOILS**

Mapped Series: Tidal Marsh
Classification:
Hydric Soil?: Yes
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 1-0 | organic duff | | | | | |
| 0-16 | 10YR 3/2 | SCL | 7.5YR 4/4 | common, medium, distinct | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|
| *Aster sp.* | FAC | 5 |
| *Atriplex sp.* | NI | 10 |
| *Carex sp.* | FACW | 10 |
| *Cyperus sp.* | NI | tr |
| *Deschampsia cespitosa** | FACW | 20 |
| *Grindelia integrifolia** | FACW | 20 |
| *Potentilla anserina* | OBL | 10 |
| *Salicornia virginica** | OBL | 20 |
| *Triglochin sp.* | OBL | tr |
| *Vicia sp.* | NI | 5 |

| Woody Vine Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-12A-63 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: October 20, 1998 |
| Investigators: | PF/JVS | Township: 13S | Range: 11W | Section: 19 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh — Hydric Soil?: Yes

Classification: — Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-2 | | organic duff | | | | |
| 2-14 | 10YR 4/4 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Cytisus scoparius** | UPL | 90 |
| *Vaccinium ovatum* | UPL | 10 |

| Herbaceous Stratum (40%) | Status | % Cover |
|---|---|---|
| *Achillea millefolium** | FACU | 20 |
| *Festuca arundinacea** | FAC- | 30 |
| *Polystichum munitum** | FACU | 20 |
| *Vicia sp.* | NI | 5 |

| Woody Vine Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus ursinus** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 0% — Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-11A-64 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | Yes | | Water marks: |
| Depth of inundation: | >24 | Inches | Drift lines: |
| Depth to free water: | | Inches | Drainage patterns: |
| Depth to saturation: | | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Tidal Marsh
Classification:
Hydric Soil?: Yes
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| | | | | | | could not excavate |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: N/A

**VEGETATION**

| Tree Stratum (20%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Herbaceous Stratum (40%) | Status | % Cover |
|---|---|---|
| *Epilobium watsonii* | FACW- | 3 |
| *Equisetum arvense* | FAC | 5 |
| *Juncus patens* | FACW | 2 |
| *Scirpus microcarpus** | OBL | 90 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 75%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-11A-65 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: November 17, 1998 |
| Investigators: | JF/CR | Township: 13S | Range: 11W | Section: 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >14 | Inches | Drainage patterns: |
| Depth to saturation: | >14 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Tidal Marsh
Hydric Soil?: Yes
Classification:
Drainage Class:

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-14 | 10YR 2/2 | SDL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (10%) | Status | % Cover |
|---|---|---|
| *Alnus rubra** | FAC | 100 |

| Shrub Stratum (0%) | Status | % Cover |
|---|---|---|
| | | |

| Herbaceous Stratum (60%) | Status | % Cover |
|---|---|---|
| *Equisetum telmateia* | FACW | 5 |
| *Festuca arundinacea** | FAC- | 75 |
| *Holcus lanatus* | FAC | 10 |
| *Ranunculus repens* | FACW | 10 |

| Woody Vine Stratum (30%) | Status | % Cover |
|---|---|---|
| *Rubus discolor** | FACU | 100 |

Percent of dominant species FAC, FACW, or OBL*: 33%
Criteria Met: No

Comments:

Determination: Upland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: | ALS-10B-66 |
|---|---|---|---|---|---|
| Applicant: | City of Waldport | County: | Lincoln | Date: | March 10, 1999 |
| Investigators: | JF/PF | Township: | 13S | Range: 11W | Section: 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | 12 | Inches | Drainage patterns: |
| Depth to saturation: | 0 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: Yes

**SOILS**

Mapped Series: Knappa silt loam
Classification: Typic Humitropept
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 0-8 | 7.5YR 3/2 | organic muck | | | | |
| 8-14 | 7.5YR 3/1 | organic SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: Yes

**VEGETATION**

| Tree Stratum (0%) | Status | % Cover | Herbaceous Stratum (100%) | Status | % Cover |
|---|---|---|---|---|---|
| | | | *Angelica lucida** | FAC+ | 40 |
| | | | *Juncus effusus** | FACW | 50 |
| | | | *Compositae sp.* | NI | 10 |
| **Shrub Stratum (0%)** | **Status** | **% Cover** | | | |
| | | | **Woody Vine Stratum (0%)** | **Status** | **% Cover** |
| | | | | | |

Percent of dominant species FAC, FACW, or OBL*: 100%

Criteria Met: Yes

Comments:

Determination: Wetland

# Wetland Determination Data Form
## Routine Onsite Method

Pacific Habitat Services, Inc.

| Project: | Waldport LWI | | Number: 8-1664 | Sample Site: ALS-10B-67 |
|---|---|---|---|---|
| Applicant: | City of Waldport | County: Lincoln | | Date: March 10, 1999 |
| Investigators: | JF/PF | Township: 13S | Range: 11W | Section: 20 |

**HYDROLOGY**

| | Primary Indicators | | Secondary Indicators |
|---|---|---|---|
| Inundated (Yes/No): | No | | Water marks: |
| Depth of inundation: | | Inches | Drift lines: |
| Depth to free water: | >16 | Inches | Drainage patterns: |
| Depth to saturation: | >16 | Inches | Oxidized rhizospheres: |
| Other: | | | Sediment deposits: |

Criteria Met: No

**SOILS**

Mapped Series: Lint silt loam
Classification: Alic Fulvudand
Hydric Soil?: No
Drainage Class: well drained

| Depth (Inches) | Matrix Color | Soil Texture* | Redox Concentrations Color | Redox Concentrations abundance/size/contrast | Other Hydric Soil Field Indicators | Comments |
|---|---|---|---|---|---|---|
| 2-0 | | duff | | | | |
| 0-16 | 10YR 3/6 | SL | | | | |

*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay

Criteria Met: No

**VEGETATION**

| Tree Stratum (50%) | Status | % Cover |
|---|---|---|
| *Picea sitchensis** | FAC | 100 |

| Shrub Stratum (30%) | Status | % Cover |
|---|---|---|
| *Gaultheria shallon** | FACU | 40 |
| *Rubus spectabilis** | FAC+ | 20 |
| *Vaccinium ovatum** | UPL | 40 |

| Herbaceous Stratum (10%) | Status | % Cover |
|---|---|---|
| *Glecoma hederacea** | FACU+ | 20 |
| *Polystichum munitum** | FACU | 80 |

| Woody Vine Stratum (10%) | Status | % Cover |
|---|---|---|
| *Hedera helix** | UPL | 100 |

Percent of dominant species FAC, FACW, or OBL*: 14%

Criteria Met: No

Comments:

Determination: Upland

# Appendix C
# OFWAM Data and Summary Sheets

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | ALS-1A |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, R3 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.23 |
| **Onsite Assessment?:** | No | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | South of Pacific Drive, Red River tributary | | |

### Function and Condition Assessment Answers:

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

### Results:

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

### Function and Condition Assessment Answers:

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | C |
| Q-3 | A | Q-3 | B | Q-3 | C | Q-3 | A |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | A |
| Q-5B | A | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | A |

### Results:

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-1A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.23 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, R3 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | Less than 25% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-1B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | R3 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.01 |
| **Onsite Assessment?:** | No | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | South of Starr Street, Red River tributary | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **A** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **C** |
| Q-4 | **C** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-1B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.01 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | R3 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream banks are extensively modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland does not flood or pond | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland does not flood or pond | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-2A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, PEM, R4 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 4.07 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF, JF, CR |
| **Wetland Location:** | Red River drainage, south of Starr, east of Pacific Drive | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is intact |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | | Q-1 | C | Q-1 | C | Q-1 | A |
| Q-2 | | Q-2 | B | Q-2 | C | Q-2 | C |
| Q-3 | | Q-3 | A | Q-3 | B | Q-3 | A |
| Q-4 | | Q-4 | B | Q-4 | A | Q-4 | A |
| Q-5B | | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | | Q-6 | B | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-2A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 4.07 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PEM, R4 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | >25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Wetland is more than 5 acres in size |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | More than two Cowardin classes are visible | Wetland surrounded by natural areas |
| | Less than 25% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-2B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.48 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | Red River drainage, south of Brentwood Drive | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | | Q-2 | **B** | Q-2 | **C** | Q-2 | **C** |
| Q-3 | | Q-3 | **A** | Q-3 | **B** | Q-3 | **A** |
| Q-4 | | Q-4 | **B** | Q-4 | **A** | Q-4 | **A** |
| Q-5B | | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-2B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.48 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | Less than 25% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-3** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.33 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, CR |
| **Wetland Location:** | Red River tributary, east of Cedar Drive, south of Starr | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | | Q-2 | **B** | Q-2 | **C** | Q-2 | **B** |
| Q-3 | | Q-3 | **A** | Q-3 | **B** | Q-3 | **A** |
| Q-4 | | Q-4 | **B** | Q-4 | **A** | Q-4 | **A** |
| Q-5B | | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-3** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.33 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-4A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.56 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, CR |
| **Wetland Location:** | Red River drainage, north of Starr Street | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | A | Q-1 | C | Q-1 | C |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | A | Q-3 | B | Q-3 | C | Q-3 | A |
| Q-4 | B | Q-4 | C | Q-4 | B | Q-4 | C |
| Q-5B | C | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | A | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland has potential for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-4A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.56 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Class with less than 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is less than 10% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | Less than 25% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream banks are extensively modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Low vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is less than 10% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland has potential for educational use** | |
| **Rationale:** | Wetland is open to the public | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | No access or observation of other habitats | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by development |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-4B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.49 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, CR |
| **Wetland Location:** | Red River drainage, south of Hwy 34 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **A** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **A** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **A** |
| Q-4 | **B** | Q-4 | **C** | Q-4 | **B** | Q-4 | **C** |
| Q-5B | **C** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **A** | Q-6 | **B** | Q-6 | **B** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland has potential for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-4B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.49 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Class with less than 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is less than 10% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | Less than 25% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream banks are extensively modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Low vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is less than 10% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland has potential for educational use** | |
| **Rationale:** | Wetland is open to the public | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | No access or observation of other habitats | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by development |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-5** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.83 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, CR |
| **Wetland Location:** | East of Lint Slough, north of Hwy 34, near marina | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | C |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | A | Q-3 | B | Q-3 | B | Q-3 | C |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | C |
| Q-5B | C | Q-5 | C | Q-5 | B | Q-5 | B |
| Q-6 | B | Q-6 | A | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-5** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.83 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation, no ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is less than 10% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream banks are extensively modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation, no ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation, no ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is less than 10% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by development |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-6** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.11 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | South of Hwy 34, east of Waldport Heights Drive | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **B** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **C** |
| Q-4 | **B** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **B** |
| Q-6 | **B** | Q-6 | **A** | Q-6 | **B** | Q-6 | **B** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-6** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.11 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | 25 - 50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-7** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.16 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Southwest of Hwy 34, north of Meadowlark Lane | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **B** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **C** |
| Q-4 | **B** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **B** |
| Q-6 | **B** | Q-6 | **A** | Q-6 | **B** | Q-6 | **B** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-7** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.16 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | 25 - 50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-8** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.67 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Clover Lane, southwest of Hwy. 34 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides habitat for some wildlife species |
| **Fish Habitat** | Fish habitat was not assessed for this wetland |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control is impacted or degraded |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | C |
| Q-2 | B | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | B | Q-3 | C | Q-3 | C |
| Q-4 | B | Q-4 | C | Q-4 | B | Q-4 | B |
| Q-5B | B | Q-5 | C | Q-5 | B | Q-5 | B |
| Q-6 | B | Q-6 | A | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-8** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.67 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation, no ponding | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is between 10% and 40% |
| **Result:** | **Fish habitat was not assessed for this wetland** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is groundwater | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation, no ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation, no ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is groundwater | Wetland buffer is between 10% and 40% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | No access or observation of other habitats | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-9** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.55 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | North of Alsea Bay, south of Bayview Road | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | B |
| Q-3 | A | Q-3 | B | Q-3 | C | Q-3 | A |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | A |
| Q-5B | A | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-9** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.55 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Low vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-10A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS, PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 2.33 |
| **Onsite Assessment?:** | No | **Investigator(s):** | JVS, PF. JF |
| **Wetland Location:** | South end of McKinney Slough, north of Lucy Lane | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is intact |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | | Q-1 | **C** | Q-1 | **C** | Q-1 | **A** |
| Q-2 | | Q-2 | **B** | Q-2 | **C** | Q-2 | **B** |
| Q-3 | | Q-3 | **A** | Q-3 | **B** | Q-3 | **A** |
| Q-4 | | Q-4 | **A** | Q-4 | **A** | Q-4 | **A** |
| Q-5B | | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | | Q-6 | **A** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **ALS-10A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 2.33 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS, PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is primarily open space |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is primarily open space |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is primarily open space |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Flow out of wetland is restricted | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is primarily open space |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Public access to other habitats exist | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | More than two Cowardin classes are visible | Wetland surrounded by natural areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 5.74 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

| Wildlife Habitat | | Fish Habitat | | Water Quality | | Hydrologic Control | | Sensitivity to Impact | |
|---|---|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | A | Q-1 | A | Q-1 | B | Q-1 | B |
| Q-2 | B | Q-2 | B | 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-4 | A | Q-4 | A | Q-4 | A | Q-4 | B | Q-4 | A |
| Q-5 | A | Q-5 | C | Q-5 | A | Q-5 | B | Q-5 | A |
| Q-6 | A | Q-6 | B | Q-6 | C | Q-6 | A | Q-6 | B |
| Q-7 | A | | | | | Q-7 | A | | |
| Q-8 | C | | | | | | | | |
| Q-9A | | | | | | | | | |
| Q-9B | A | | | | | | | | |

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is intact |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | A | Q-3 | B | Q-3 | A |
| Q-4 | | Q-4 | B | Q-4 | A | Q-4 | B |
| Q-5B | | Q-5 | C | Q-5 | B | Q-5 | B |
| Q-6 | | Q-6 | A | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 5.74 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Greater than 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | >25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Wetland is more than 5 acres in size |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Minor restrictions slow down the water | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM, PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 1.51 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

| Wildlife Habitat | | Fish Habitat | | Water Quality | | Hydrologic Control | | Sensitivity to Impact | |
|---|---|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **A** | Q-1 | **A** | Q-1 | **B** | Q-1 | **B** |
| Q-2 | **B** | Q-2 | **B** | 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-4 | **A** | Q-4 | **A** | Q-4 | **A** | Q-4 | **B** | Q-4 | **A** |
| Q-5 | **A** | Q-5 | **C** | Q-5 | **A** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **A** | Q-6 | **B** | Q-6 | **C** | Q-6 | **A** | Q-6 | **B** |
| Q-7 | **A** | | | | | Q-7 | **A** | | |
| Q-8 | **C** | | | | | | | | |
| Q-9A | | | | | | | | | |
| Q-9B | **A** | | | | | | | | |

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is intact |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | | Q-2 | **B** | Q-2 | **C** | Q-2 | **A** |
| Q-3 | | Q-3 | **A** | Q-3 | **B** | Q-3 | **A** |
| Q-4 | | Q-4 | **B** | Q-4 | **A** | Q-4 | **B** |
| Q-5B | | Q-5 | **C** | Q-5 | **B** | Q-5 | **B** |
| Q-6 | | Q-6 | **B** | Q-6 | **B** | Q-6 | **B** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 1.51 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Greater than 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | >25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Wetland is more than 5 acres in size |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Minor restrictions slow down the water | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1C** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM, R3 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.17 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Upper branch of Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | C |
| Q-3 | A | Q-3 | B | Q-3 | C | Q-3 | A |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | A |
| Q-5B | A | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1C** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.17 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, R3 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Minor restrictions slow down the water | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | Less than 25% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1D** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.96 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

| Wildlife Habitat | | Fish Habitat | | Water Quality | | Hydrologic Control | | Sensitivity to Impact | |
|---|---|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | A | Q-1 | A | Q-1 | B | Q-1 | B |
| Q-2 | B | Q-2 | B | 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-4 | C | Q-4 | A | Q-4 | A | Q-4 | B | Q-4 | A |
| Q-5 | A | Q-5 | C | Q-5 | A | Q-5 | B | Q-5 | A |
| Q-6 | A | Q-6 | B | Q-6 | C | Q-6 | A | Q-6 | B |
| Q-7 | A | | | | | Q-7 | A | | |
| Q-8 | C | | | | | | | | |
| Q-9A | | | | | | | | | |
| Q-9B | A | | | | | | | | |

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | A | Q-3 | A | Q-3 | B | Q-3 | A |
| Q-4 | A | Q-4 | B | Q-4 | B | Q-4 | B |
| Q-5B | A | Q-5 | C | Q-5 | B | Q-5 | B |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1D** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.96 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | >25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Wetland is more than 5 acres in size |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Minor restrictions slow down the water | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is greater than 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1E** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.37 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Upper branch of Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides habitat for some wildlife species |
| **Fish Habitat** | Fish habitat was not assessed for this wetland |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **B** | Q-2 | **B** | Q-2 | **C** | Q-2 | **B** |
| Q-3 | | Q-3 | **B** | Q-3 | **C** | Q-3 | **A** |
| Q-4 | **B** | Q-4 | **B** | Q-4 | **B** | Q-4 | **A** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1E** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.37 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |

| | | |
|---|---|---|
| **Result:** | **Fish habitat was not assessed for this wetland** | |
| **Rationale:** | | |
| | | |
| | | |

| | | |
|---|---|---|
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is groundwater | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |

| | | |
|---|---|---|
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |

| | | |
|---|---|---|
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |

| | | |
|---|---|---|
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is groundwater | Wetland buffer is greater than 40% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |

| | | |
|---|---|---|
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |

| | | |
|---|---|---|
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |

| | | |
|---|---|---|
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by natural areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1F** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS, R4 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.09 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Upper branch of Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | C |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | B | Q-3 | C | Q-3 | A |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | A |
| Q-5B | A | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1F** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.09 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS, R4 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by natural areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1G** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM, R4 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.29 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | Upper branch of Patterson Creek, east of 101 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | B |
| Q-3 | A | Q-3 | B | Q-3 | B | Q-3 | C |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | B |
| Q-5B | C | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1G** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.29 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, R4 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is less than 10% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Minor restrictions slow down the water | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is less than 10% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1H** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.28 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, CR |
| **Wetland Location:** | Upper branch of Patterson Creek drainage, near golf course | | |

**Function and Condition Assessment Answers:**

| Wildlife Habitat | | Fish Habitat | | Water Quality | | Hydrologic Control | | Sensitivity to Impact | |
|---|---|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **B** | Q-1 | **B** | Q-1 | **A** | Q-1 | **B** | Q-1 | **A** |
| Q-2 | **C** | 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 | **C** |
| Q-4 | **C** | Q-4 | **A** | Q-4 | **B** | Q-4 | **C** | Q-4 | **A** |
| Q-5 | **A** | Q-5 | **C** | Q-5 | **A** | Q-5 | **C** | Q-5 | **A** |
| Q-6 | **A** | Q-6 | **B** | Q-6 | **C** | Q-6 | **A** | Q-6 | **C** |
| Q-7 | **A** | | | | | Q-7 | **A** | | |
| Q-8 | **C** | | | | | | | | |
| Q-9A | | | | | | | | | |
| Q-9B | **C** | | | | | | | | |

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **A** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **B** | Q-3 | **C** |
| Q-4 | **C** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **C** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has moderate potential for enhancement |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1H** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.28 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation, no ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is less than 10% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation, no ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation, no ponding |
| **Result:** | **Wetland has moderate potential for enhancement** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is less than 10% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1J** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PUB |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 1.06 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | CR, JF |
| **Wetland Location:** | Golf course pond at upper end of Patterson Creek drainage | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | A | Q-1 | A | Q-1 | B |
| Q-2 | B | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | B | Q-3 | A | Q-3 | C |
| Q-4 | B | Q-4 | A | Q-4 | B | Q-4 | B |
| Q-5B | C | Q-5 | A | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | A | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland has potential for educational use |
| **Recreation** | Wetland provides recreational opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1J** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 1.06 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PUB |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Greater than 1 acre of open water | Wetland buffer is less than 10% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream banks are extensively modified | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is groundwater | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Low vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Flow out of wetland is restricted | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is mostly open space |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is groundwater | Wetland buffer is less than 10% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland has potential for educational use** | |
| **Rationale:** | Wetland is open to the public | Maintained public access within 250 feet |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Public access to other habitats exist | |
| **Result:** | **Wetland provides recreational opportunities** | |
| **Rationale:** | Maintained public access within 250 feet | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Maintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1K** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM, PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.27 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | CR, JF |
| **Wetland Location:** | Golf course at upper end of Patterson Creek drainage | | |

**Function and Condition Assessment Answers:**

| Wildlife Habitat | | Fish Habitat | | Water Quality | | Hydrologic Control | | Sensitivity to Impact | |
|---|---|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | B | Q-1 | A | Q-1 | B | Q-1 | A |
| Q-2 | C | 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 | C |
| Q-4 | C | Q-4 | A | Q-4 | B | Q-4 | C | Q-4 | A |
| Q-5 | A | Q-5 | C | Q-5 | A | Q-5 | C | Q-5 | C |
| Q-6 | A | Q-6 | B | Q-6 | C | Q-6 | A | Q-6 | C |
| Q-7 | A | | | | | Q-7 | A | | |
| Q-8 | C | | | | | | | | |
| Q-9A | | | | | | | | | |
| Q-9B | A | | | | | | | | |

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | A | Q-1 | A | Q-1 | A |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | A | Q-3 | B | Q-3 | A | Q-3 | C |
| Q-4 | C | Q-4 | A | Q-4 | B | Q-4 | B |
| Q-5B | A | Q-5 | A | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | A | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland has potential for educational use |
| **Recreation** | Wetland provides recreational opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1K** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.27 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation, no ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation, no ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is mostly open space |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation, no ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland has potential for educational use** | |
| **Rationale:** | Wetland is open to the public | Maintained public access within 250 feet |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Public access to other habitats exist | |
| **Result:** | **Wetland provides recreational opportunities** | |
| **Rationale:** | Maintained public access within 250 feet | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Maintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | More than two Cowardin classes are visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1L** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PUB, PEM, PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.62 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | CR, JF |
| **Wetland Location:** | Golf course pond at upper end of Patterson Creek drainage | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | A | Q-1 | A | Q-1 | A |
| Q-2 | B | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | B | Q-3 | A | Q-3 | C |
| Q-4 | B | Q-4 | A | Q-4 | B | Q-4 | B |
| Q-5B | B | Q-5 | A | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | A | Q-6 | B | Q-6 | A |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland has potential for educational use |
| **Recreation** | Wetland provides recreational opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1L** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.62 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PUB, PEM, PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is between 10% and 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 25-50% of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream banks are extensively modified | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is groundwater | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Low vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Flow out of wetland is restricted | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is mostly open space |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is groundwater | Wetland buffer is between 10% and 40% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland has potential for educational use** | |
| **Rationale:** | Wetland is open to the public | Maintained public access within 250 feet |
| | 1 or 2 visible safety hazards | Wetland is limited mobility accessible |
| | Public access to other habitats exist | |
| **Result:** | **Wetland provides recreational opportunities** | |
| **Rationale:** | Maintained public access within 250 feet | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Maintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | More than two Cowardin classes are visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1M** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.08 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | PF, JVS |
| **Wetland Location:** | South of Patterson Creek, east of Hwy 101 | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides habitat for some wildlife species |
| **Fish Habitat** | Fish habitat was not assessed for this wetland |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control function is lost or not present |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | C |
| Q-2 | C | Q-2 | A | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | B | Q-3 | B | Q-3 | C |
| Q-4 | C | Q-4 | B | Q-4 | B | Q-4 | B |
| Q-5B | C | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has moderate potential for enhancement |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-1M** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.08 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Class with less than 5 species | No adjacent Water Quality limited streams |
| | Herbaceous vegetation, no ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is less than 10% |
| **Result:** | **Fish habitat was not assessed for this wetland** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is precipitation | Isolated from other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Low vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is lost or not present** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation, no ponding |
| | Wetland floods/ponds in growing season | Open space downslope of development |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is mostly open space |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation, no ponding |
| **Result:** | **Wetland has moderate potential for enhancement** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is precipitation | Wetland buffer is less than 10% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | No visible hazards to public | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-2A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.88 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | East of Hwy 101, north of Range Drive | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | A | Q-2 | B | Q-2 | C | Q-2 | B |
| Q-3 | A | Q-3 | B | Q-3 | C | Q-3 | C |
| Q-4 | B | Q-4 | B | Q-4 | B | Q-4 | B |
| Q-5B | A | Q-5 | C | Q-5 | B | Q-5 | B |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-2A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.88 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is between 0.5 and 5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by landscaped areas |
| | 25 - 50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-2B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.28 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | East of Hwy 101, between Range Drive and Tara Lane | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **A** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **B** |
| Q-4 | **C** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **B** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **B** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-2B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.28 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Cowardin class with > 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-2C** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.13 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | East of Hwy 101, south of Tara Lane | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | A | Q-1 | C | Q-1 | C | Q-1 | C |
| Q-2 | B | Q-2 | B | Q-2 | C | Q-2 | A |
| Q-3 | | Q-3 | B | Q-3 | C | Q-3 | B |
| Q-4 | C | Q-4 | B | Q-4 | B | Q-4 | B |
| Q-5B | B | Q-5 | C | Q-5 | B | Q-5 | B |
| Q-6 | B | Q-6 | B | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-2C** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.13 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Class with less than 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is between 10% and 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Only portions of stream are modified | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is groundwater | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is groundwater | Wetland buffer is between 10% and 40% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | >50% of wetland can be seen | Unpleasant odors are present sometimes |
| | Visual detractors present, can be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-3A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.10 |
| **Onsite Assessment?:** | No | **Investigator(s):** | JF, PF |
| **Wetland Location:** | East of Hwy 101, south of Forest Way | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides habitat for some wildlife species |
| **Fish Habitat** | Fish habitat was not assessed for this wetland |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control is impacted or degraded |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **B** |
| Q-3 | | Q-3 | **B** | Q-3 | **C** | Q-3 | **C** |
| Q-4 | **C** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **B** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **B** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-3A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.10 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Class with less than 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is between 10% and 40% |

| | | |
|---|---|---|
| **Result:** | **Fish habitat was not assessed for this wetland** | |
| **Rationale:** | | |
| | | |
| | | |

| | | |
|---|---|---|
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Isolated from other wetlands |
| | Can't determine if wetland floods or ponds | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |

| | | |
|---|---|---|
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Can't determine if wetland floods or ponds | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |

| | | |
|---|---|---|
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |

| | | |
|---|---|---|
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is between 10% and 40% |
| | Water flow is permanently restricted | Potentially sensitive to future impacts |

| | | |
|---|---|---|
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |

| | | |
|---|---|---|
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |

| | | |
|---|---|---|
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-3B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | R4 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.04 |
| **Onsite Assessment?:** | No | **Investigator(s):** | JF, PF |
| **Wetland Location:** | East of Hwy 101, south of Forest Way, west of Ocean Drive | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides habitat for some wildlife species |
| **Fish Habitat** | Fish habitat was not assessed for this wetland |
| **Water Quality** | Wetland's water-quality function is impacted or degraded |
| **Hydrologic Control** | Wetland's hydrologic control is impacted or degraded |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **C** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **C** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **C** |
| Q-4 | **C** | Q-4 | **B** | Q-4 | **B** | Q-4 | **B** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is not aesthetically pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-3B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.04 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | R4 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | One Class with less than 5 species | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Fish habitat was not assessed for this wetland** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Isolated from other wetlands |
| | Can't determine if wetland floods or ponds | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Dominated by woody vegetation |
| | Can't determine if wetland floods or ponds | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | 1 or 2 visible safety hazards | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | No trails or viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is not aesthetically pleasing** | |
| **Rationale:** | One Cowardin class is visible | Wetland surrounded by landscaped areas |
| | Less than 25% of wetland can be seen | Natural odors present at wetland |
| | Visual detractors present, can't be removed | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-4** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PEM, R3 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.12 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JF, PF |
| **Wetland Location:** | East of Hwy 101, west of Park Drive | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | **A** | Q-2 | **A** | Q-2 | **C** | Q-2 | **C** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **B** | Q-3 | **A** |
| Q-4 | **C** | Q-4 | **B** | Q-4 | **B** | Q-4 | **A** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-4** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.12 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, R3 |

| | | |
|---|---|---|
| **Result:** | **Wetland provides habitat for some wildlife species** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Herbaceous vegetation & ponding | Adjacent land is mostly developed |
| | Less than 0.5 acres of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is impacted or degraded** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | <10% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is impacted or degraded** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | Moderate vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control is impacted or degraded** | |
| **Rationale:** | Wetland is not within 100 year floodplain | Herbaceous vegetation & ponding |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream modified or isolated wetland | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Herbaceous vegetation & ponding |
| **Result:** | **Wetland has high enhancement potential** | |
| **Rationale:** | Wetland functions are impacted or degraded | Wetland is less than 0.5 acres |
| | Primary water source is surface flow | Wetland buffer is greater than 40% |
| | Flow into wetland is not restricted | Potentially sensitive to future impacts |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | No visible hazards to public | Wetland is not limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides habitat for some wildlife |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | Less than 25% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Some traffic and natural noises are present |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-5A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, PSS |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.91 |
| **Onsite Assessment?:** | Yes | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | West of Hwy 101, south of Barre Lane | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is intact |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | | Q-2 | A | Q-2 | C | Q-2 | B |
| Q-3 | | Q-3 | A | Q-3 | B | Q-3 | A |
| Q-4 | | Q-4 | B | Q-4 | A | Q-4 | A |
| Q-5B | | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | | Q-6 | A | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-5A** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 0.91 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PSS |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | No visible hazards to public | Wetland is limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-5B** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, PSS, PEM |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 1.71 |
| **Onsite Assessment?:** | Yes (south portion) | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | West of Hwy 101, north of Barre Lane | | |

**Function and Condition Assessment Answers:**

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

**Results:**

| | |
|---|---|
| **Wildlife Habitat** | Wetland provides diverse wildlife habitat |
| **Fish Habitat** | Wetland's fish habitat function is intact |
| **Water Quality** | Wetland's water-quality function is intact |
| **Hydrologic Control** | Wetland's hydrologic control function is intact |
| **Sensitivity to Impact** | Wetland is potentially sensitive to future impacts |

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| Q | A | Q | A | Q | A | Q | A |
| Q-1 | | Q-1 | C | Q-1 | C | Q-1 | B |
| Q-2 | | Q-2 | A | Q-2 | C | Q-2 | B |
| Q-3 | | Q-3 | A | Q-3 | B | Q-3 | A |
| Q-4 | | Q-4 | B | Q-4 | A | Q-4 | A |
| Q-5B | | Q-5 | C | Q-5 | B | Q-5 | A |
| Q-6 | | Q-6 | A | Q-6 | B | Q-6 | B |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Due to diverse wildlife habitat, this wetland cannot be enhanced |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Oregon Freshwater Wetland Assessment Methodology
## Functions and Conditions Summary Sheet

| | | | |
|---|---|---|---|
| **Project:** | Waldport LWI | **Wetland:** | **PAC-5B** |
| **Location:** | Lincoln County | **Approx. Area (acres):** | 1.71 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PSS, PEM |

| | | |
|---|---|---|
| **Result:** | **Wetland provides diverse wildlife habitat** | |
| **Rationale:** | More than one Cowardin class | No adjacent Water Quality limited streams |
| | Dominated by woody vegetation | Adjacent land is mostly developed |
| | Between 0.5 - 1 acre of open water | Wetland buffer is greater than 40% |
| **Result:** | **Wetland's fish habitat function is intact** | |
| **Rationale:** | 50% or more of stream is shaded | No adjacent Water Quality Limited streams |
| | Stream is in a natural channel | Adjacent land is mostly developed |
| | 10-25% of stream has instream structures | Warmwater fish present in stream |
| **Result:** | **Wetland's water-quality function is intact** | |
| **Rationale:** | Primary water source is surface flow | Surface water connection to other wetlands |
| | Wetland floods/ponds in growing season | Adjacent land is mostly developed |
| | High wetland vegetation cover | No adjacent Water Quality Limited streams |
| **Result:** | **Wetland's hydrologic control function is intact** | |
| **Rationale:** | Wetland is within 100 year floodplain | Dominated by woody vegetation |
| | Wetland floods/ponds in growing season | Development downslope of wetland |
| | Water has unrestricted flow out of wetland | Development upslope of wetland |
| **Result:** | **Wetland is potentially sensitive to future impacts** | |
| **Rationale:** | Stream not modified | Adjacent land is mostly developed |
| | Water not taken out | Adjacent zoning is primarily development |
| | No adjacent Water Quality Limited streams | Dominated by woody vegetation |
| **Result:** | **Due to diverse wildlife habitat, this wetland cannot be enhanced** | |
| **Rationale:** | | |
| | | |
| | | |
| **Result:** | **Wetland site is not appropriate for educational use** | |
| **Rationale:** | No access allowed to wetland | No access point to wetland exists |
| | No visible hazards to public | Wetland is limited mobility accessible |
| | Other habitats can be observed not accessed | |
| **Result:** | **Wetland is not appropriate or does not provide rec. opportunities** | |
| **Rationale:** | No access point to wetland exists | Wetland provides diverse wildlife habitat |
| | No boat launching can be developed | No fishing is allowed |
| | Unmaintained trails, viewing areas exist | No hunting is allowed |
| **Result:** | **Wetland is considered to be moderately pleasing** | |
| **Rationale:** | Two Cowardin classes visible | Wetland surrounded by natural areas |
| | 25 - 50% of wetland can be seen | Natural odors present at wetland |
| | No visual detractors are present | Continuous traffic and natural noises occur |

# Appendix D
# Significant Wetland/Major Marshes Determination Sheets

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-1A** |
|---|---|---|---|
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.23 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, R3 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-1B** |
|---|---|---|---|
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.01 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | R3 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-2A** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 4.07 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PEM, R4 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | Yes | |
| **2** Is the wetland's *fish habitat function intact* ? | Yes | |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| Project Name: | Waldport LWI | Wetland: | ALS-2B |
|---|---|---|---|
| Project Location: | Lincoln County | Approx. Area (acres): | 0.48 |
| Date: | 4/26/99 | Wetland Types(s): | PFO |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | Yes | |
| **2** Is the wetland's *fish habitat function intact* ? | Yes | |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

## Locally Significant Wetland

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-3** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.33 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat*? | Yes | |
| **2** Is the wetland's *fish habitat function intact*? | Yes | |
| **3** Is the wetland's *water quality function intact*? | | No |
| **4** Is the wetland's *hydrologic control function intact*? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded*? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded*? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function*. | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses*? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-4A** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.56 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions:* A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | Yes | |
| **EXCLUSION CRITERIA SATISIFIED?** | **Yes** | |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:* A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | |
| **2** Is the wetland's fish habitat function intact? | | |
| **3** Is the wetland's water quality function intact? | | |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | |
| **6** Does the wetland contain a rare plant community? | | |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat* ) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan* ? | | |

**Excluded from consideration, not a Major Marsh**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-4B** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.49 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | Yes | |
| **EXCLUSION CRITERIA SATISIFIED?** | **Yes** | |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | |
| **2** Is the wetland's fish habitat function intact? | | |
| **3** Is the wetland's water quality function intact? | | |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | Yes | |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | |
| **6** Does the wetland contain a rare plant community? | | |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat* ) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan* ? | | |

**Excluded from consideration, Not a Major Marsh**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-5** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.83 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions:* A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:* A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | No |
| **2** Is the wetland's fish habitat function intact? | | No |
| **3** Is the wetland's water quality function intact? | Yes | |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan*? | | No |

## Major Marsh

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-6** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.11 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | No |
| **2** Is the wetland's fish habitat function intact? | | No |
| **3** Is the wetland's water quality function intact? | | No |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat* ) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan* ? | | No |

**Does not satisfy critera, not a Major Marsh**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-7** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.16 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | No |
| **2** Is the wetland's fish habitat function intact? | | No |
| **3** Is the wetland's water quality function intact? | | No |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan*? | | No |

**Does not satisfy critera, not a Major Marsh**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-8** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.67 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | No |
| **2** Is the wetland's fish habitat function intact? | | No |
| **3** Is the wetland's water quality function intact? | | No |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan*? | | No |

**Does not satisfy critera, not a Major Marsh**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **ALS-9** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.55 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | | No |
| **2** Is the wetland's fish habitat function intact? | | No |
| **3** Is the wetland's water quality function intact? | | No |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | Yes | |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan*? | | No |

**Major Marsh**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-10A** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 2.33 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS, PEM |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | Yes | |
| **2** Is the wetland's *fish habitat function intact* ? | Yes | |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1A** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 5.74 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | Yes | |
| **2** Is the wetland's *fish habitat function intact* ? | Yes | |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1B** |
|---|---|---|---|
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 1.51 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | Yes | |
| **2** Is the wetland's *fish habitat function intact* ? | Yes | |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1C** |
|---|---|---|---|
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.17 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, R3 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1D** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.96 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | Yes | |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

## Locally Significant Wetland

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1E** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.37 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

## Locally Significant Wetland

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| Project Name: | Waldport LWI | Wetland: | PAC-1F |
|---|---|---|---|
| Project Location: | Lincoln County | Approx. Area (acres): | 0.09 |
| Date: | 4/26/99 | Wetland Types(s): | PSS, R4 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1G** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.29 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, R4 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1H** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.28 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1J** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 1.06 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PUB |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1K** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.27 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1L** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.62 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PUB, PEM, PSS |

| ***Exclusions*: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat*? | | No |
| **2** Is the wetland's *fish habitat function intact*? | | No |
| **3** Is the wetland's *water quality function intact*? | | No |
| **4** Is the wetland's *hydrologic control function intact*? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded*? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded*? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

| ***Optional Locally Significant Wetland Criteria*: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function*. | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses*? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-1M** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.08 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| Project Name: | Waldport LWI | Wetland: | PAC-2A |
|---|---|---|---|
| Project Location: | Lincoln County | Approx. Area (acres): | 0.88 |
| Date: | 4/26/99 | Wetland Types(s): | PFO, PEM |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat*? | | No |
| **2** Is the wetland's *fish habitat function intact*? | | No |
| **3** Is the wetland's *water quality function intact*? | Yes | |
| **4** Is the wetland's *hydrologic control function intact*? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded*? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded*? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function*. | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses*? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-2B** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.28 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | Yes | |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

## Locally Significant Wetland

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-2C** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.13 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | Yes | |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | **Yes** | |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-3A** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.1 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PSS |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-3B** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.04 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | R4 |

| ***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".** | | |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

| ***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide *diverse wildlife habitat* ? | | No |
| **2** Is the wetland's *fish habitat function intact* ? | | No |
| **3** Is the wetland's *water quality function intact* ? | | No |
| **4** Is the wetland's *hydrologic control function intact* ? | | No |
| **5** Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

| ***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below** | | |
|---|---|---|
| **1** Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| **2** Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Locally Significant Wetlands Criteria

**ORS 197.279 (3)(b)**

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **PAC-4** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.12 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PEM, R3 |

***Exclusions*** **: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".**

| | | |
|---|---|---|
| 1 Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining stormwater | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86 | | No |
| **Exclusion criteria satisfied?** | | **No** |

***Mandatory Locally Significant Wetland Criteria*** **: This wetland is locally significant if "Yes" is the answer to any of the criteria below.**

| | | |
|---|---|---|
| 1 Does the wetland provide *diverse wildlife habitat* ? | | No |
| 2 Is the wetland's *fish habitat function intact* ? | | No |
| 3 Is the wetland's *water quality function intact* ? | | No |
| 4 Is the wetland's *hydrologic control function intact* ? | | No |
| 5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's *water quality function intact, or impacted or degraded* ? | | No |
| 6 Does the wetland contain a rare plant community? | | No |
| 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| 8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids and is the wetland's *fish habitat function intact, or impacted or degraded* ? | | No |
| **Mandatory Locally Significant Wetland criteria satisfied ?** | | **No** |

***Optional Locally Significant Wetland Criteria*** **: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below**

| | | |
|---|---|---|
| 1 Does the wetland represent a locally unique native plant community and provides *diverse wildlife habitat or habitat for some species* or has a *intact, or impacted or degraded fish habitat function* or has a *intact, or impacted or degraded water quality function* or has a *intact, or impacted or degraded hydrologic control function* . | | No |
| 2 Is the wetland publicly owned and used by a school or organization and does the wetland provide *educational uses* ? | | No |
| **Optional Locally Significant Wetland criteria satisfied ?** | | **No** |

**Does not satisfy the criteria, Not a Locally Significant Wetland**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **PAC-5A** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 0.91 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PSS |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| 1 Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| 5 Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| 1 Does the wetland provide diverse wildlife habitat? | Yes | |
| 2 Is the wetland's fish habitat function intact? | Yes | |
| 3 Is the wetland's water quality function intact? | Yes | |
| 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| 5 Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| 6 Does the wetland contain a rare plant community? | | No |
| 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| 8 Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat* ) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan* ? | | No |

**Major Marsh**

# Goal 17 Significant Wetland (Major Marsh) Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland Code:** | **PAC-5B** |
| **Project Location:** | Lincoln County | **Approx. Area (acres):** | 1.71 |
| **Date:** | 4/26/99 | **Wetland Types(s):** | PFO, PSS, PEM |

| ***Exclusions:*** **A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".** | **YES** | **NO** |
|---|---|---|
| **1** Is this wetland artificially created entirely from upland and: | | |
| **a.** created for the purpose of controlling, storing, or maintaining storm water | | No |
| **b.** is used for active surface mining or as a log pond | | No |
| **c.** is a ditch without a free and open connection to natural waters of the state | | No |
| **d.** is less than 1 acre and created unintentionally from irrigation or construction | | No |
| **e.** created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| **2** Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| **3** Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| **4** Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |
| **5** Is the wetland or a portion of the wetland designated on the Urban Renewal Plan for future public improvements? | | No |
| **EXCLUSION CRITERIA SATISIFIED?** | | No |

| ***Goal 17 Significant Wetland (Major Marsh) Criteria:*** **A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the wetland provide diverse wildlife habitat? | Yes | |
| **2** Is the wetland's fish habitat function intact? | Yes | |
| **3** Is the wetland's water quality function intact? | Yes | |
| **4** Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | | No |
| **5** Does the wetland have a direct surface water connection to the Alsea River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| **6** Does the wetland contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **8** Does the wetland have a direct surface water connection to the Alsea River or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a signficant habitat site on the *Oregon Estuary Plan*? | | No |

**Major Marsh**

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R1 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R2 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Appendix E
# Riparian Data Sheets and Assessment Sheets

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/17/99 **Riparian Code:** R-1 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 2400

**Investigators:** JVS/PF **Hydrologic Basin:** Pacific/Patterson Creek

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 5-20 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 50-180 | feet |

**LWI Wetland Code:** PAC-1A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Nelscott loam, Bandon fine sandy loam (3E)

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Blechnum spicant* |
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Vaccinium ovatum* | |
| *Alnus rubra* | |
| *Thuja plicata* | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-1 L/R**

**Date:** 2/17/99 **Investigators:** JVS/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120 L/R **feet**

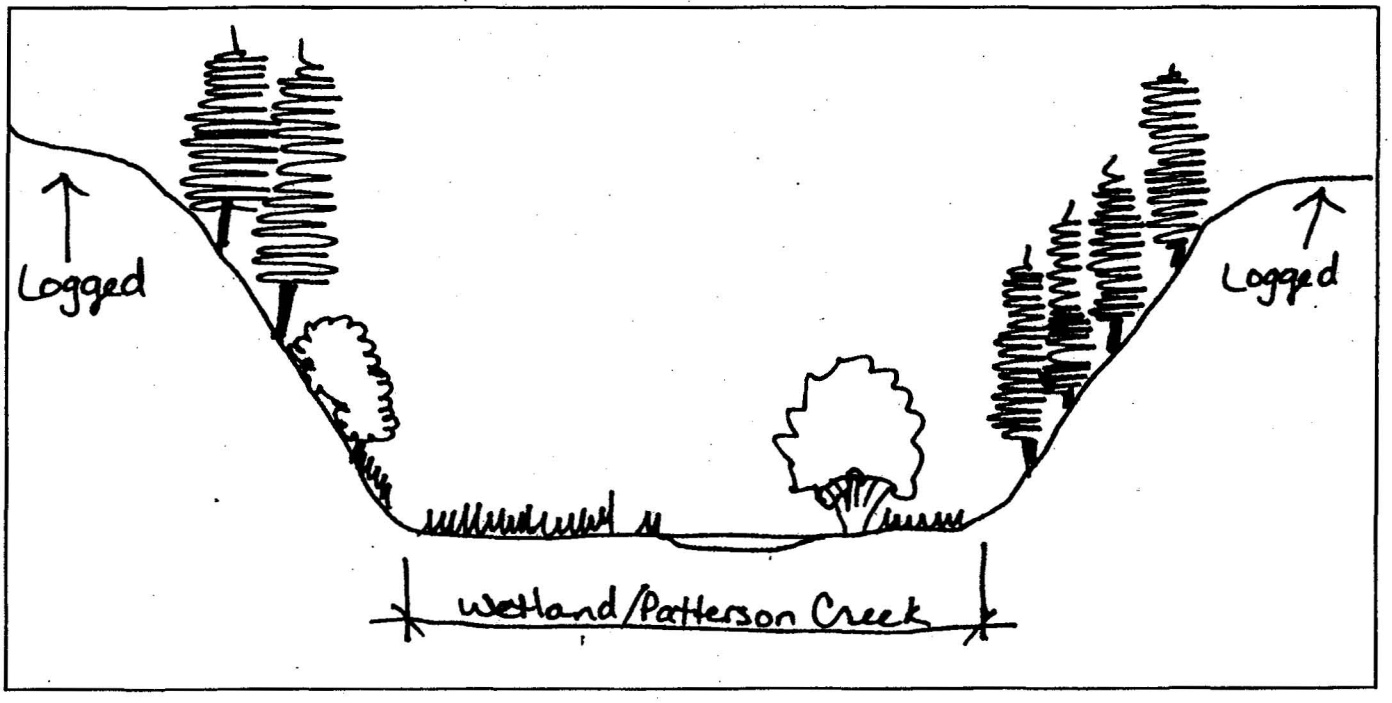
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Culvert under Hwy 101. Steep riparian area has been partially logged.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-1 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-1 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-1 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-1 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-1 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 22 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/17/99 **Riparian Code:** R-2 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1200

**Investigators:** JVS/PF **Hydrologic Basin:** Pacific/Patterson

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 4-10 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 50-100 | feet |

**LWI Wetland Code:** PAC-1B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Nelscott loam, 3-12% and Bandon fine sandy loam 12-50%

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Blechnum spicant* |
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Gaultheria shallon* | |
| *Vaccinium ovatum* | |
| *Cytisus scoparius* | |
| *Alnus rubra* | |
| *Thuja plicata* | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-2 L/R**

**Date:** 2/17/99 **Investigators:** JVS/PF

**Dominant tree species:** *Picea stichensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/90-120(L) / 30-100(R) **feet**

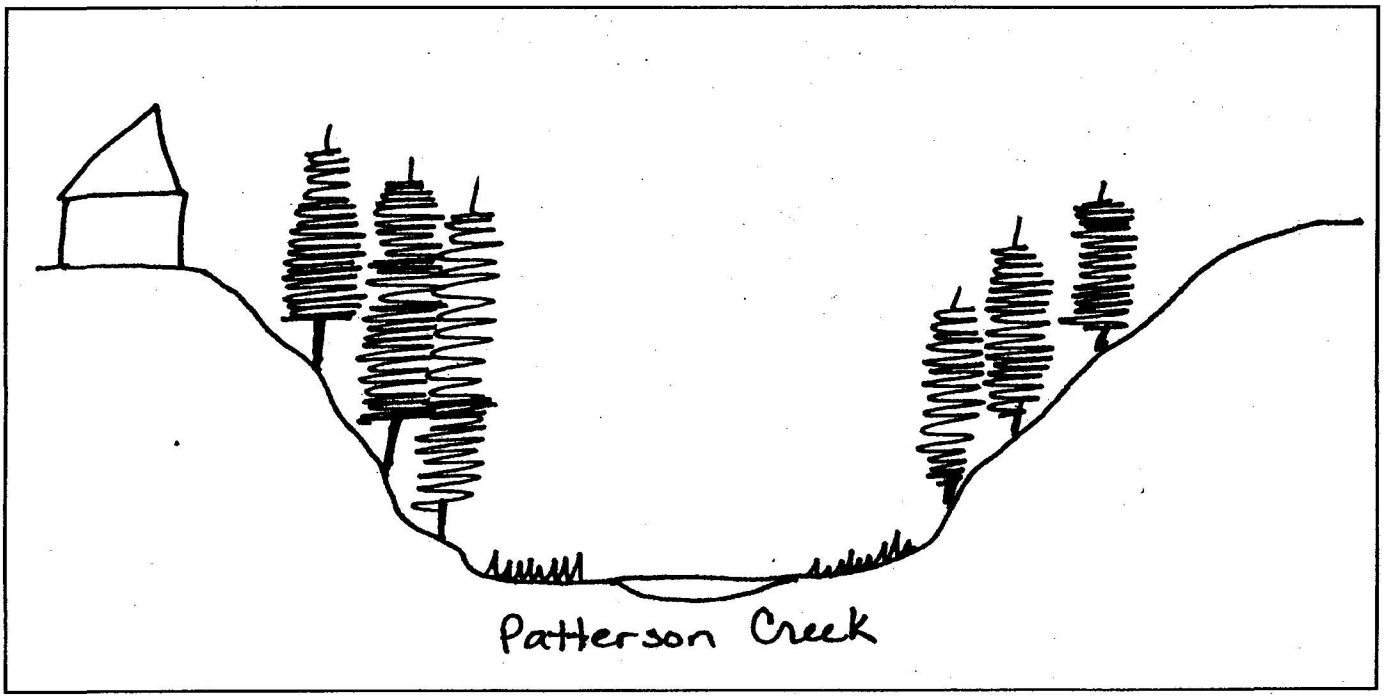
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Located in Ocean Hills residential area, large culverts under entrance road and under old logging roads. Disturbance due to past logging activities on south side.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-2 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 11

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-2 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-2 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |
| **Total Points:** | | 8 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-2 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-2 L/R

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 21

**Function:** **High (19-23 pts)** **Medium (13-18 pts)** **Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-3 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 2200

**Investigators:** PF/JF **Hydrologic Basin:** Pacific/Patterson

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | Stream/River: | x | Width: 2-12 | feet |
| | Lake/Pond: | | Width: | feet |
| | Wetland: | x | Width: 50-100 | feet |

**LWI Wetland Code:** PAC-1B

**Water present year-round:** Yes ☒ No ☐

**Are salmonids present in the adjacent water resource?** Yes ☐ No ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes ☐ No ☒

**Within FEMA-mapped 100-year floodplain:** Yes ☐ No ☒

**Mapped soil series:** Bandon fine sandy loam

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☒ |

| Woody vegetation (trees, shrubs, vines >1 meter) | Herbaceous vegetation (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Blechnum spicant* |
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Gaultheria shallon* | *Rubus spectabilis* |
| *Vaccinium ovalifolium* | *Carex obnupta* |
| *Rubus spectabilis* | |
| *Vaccinium parviflorum* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-3 L/R**

**Date:** 3/9/99 **Investigators:** PF/JF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/L-100/R-120 **feet**

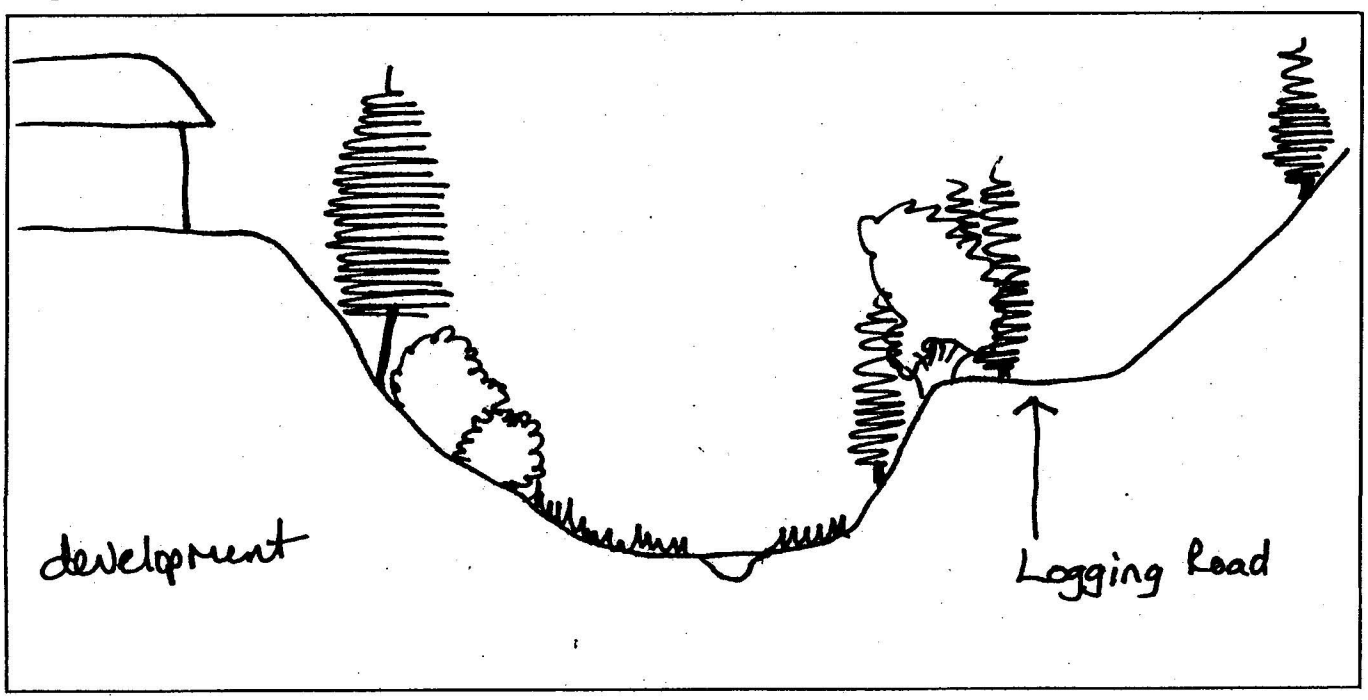
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Tributary of Patterson Creek. Drains west through recently logged area and Ocean Hills residential area.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-3 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 13 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-3 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-3 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-3 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-3 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | **3** |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | **3** |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | **2** |
| c. Greater than 75% | 1 pt | |

**Total Points:** **21**

**Function:** **High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/17/99 **Riparian Code:** R-4 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 5500

**Investigators:** JVS/PF **Hydrologic Basin:** Pacific/Patterson

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 2-10 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** Between PAC-1B and 1C

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Nelscott loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Polystichum munitum* |
| *Tsuga heterophylla* | *Blechnum spicant* |
| *Gaultheria shallon* | *Rubus spectabilis* |
| *Vaccinium ovatum* | *Carex obnupta* |
| *Rubus spectabilis* | |
| *Vaccinium parviflorum* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-4 L**

**Date:** 2/17/99 **Investigators:** JVS/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120'/ 120(L) 30(R) **feet**

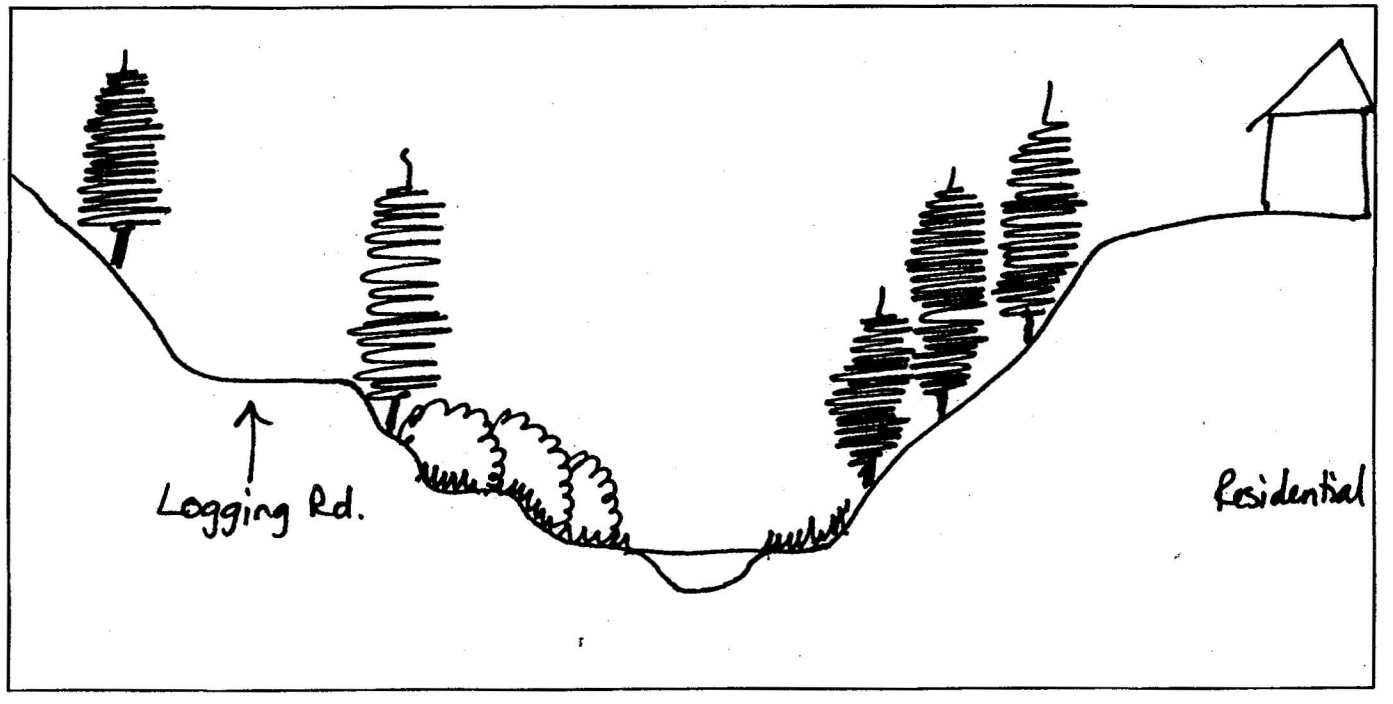
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Residential area to right along Seabrook Lane. Area has been logged with many old logging roads.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-4 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 13 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-4 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-4 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-4 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-4 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 19

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-5 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1600

**Investigators:** PF/JF **Hydrologic Basin:** Pacific/Patterson Creek

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 3-8 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** 5-20 | feet |

**LWI Wetland Code:** PAC-1C

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Bandon fine sandy loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☒ |
| **Residential:** | ☒ | **Forestry:** | ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Tsuga heterophylla* | *Gaultheria shallon* |
| *Pinus contorta* | *Polystichum munitum* |
| *Vaccinium ovatum* | |
| *Gaultheria shallon* | |
| *Rubus spectabilis* | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-5 L/R**

**Date:** 3/9/99 **Investigators:** PF/JF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120 / 120 L/R **feet**

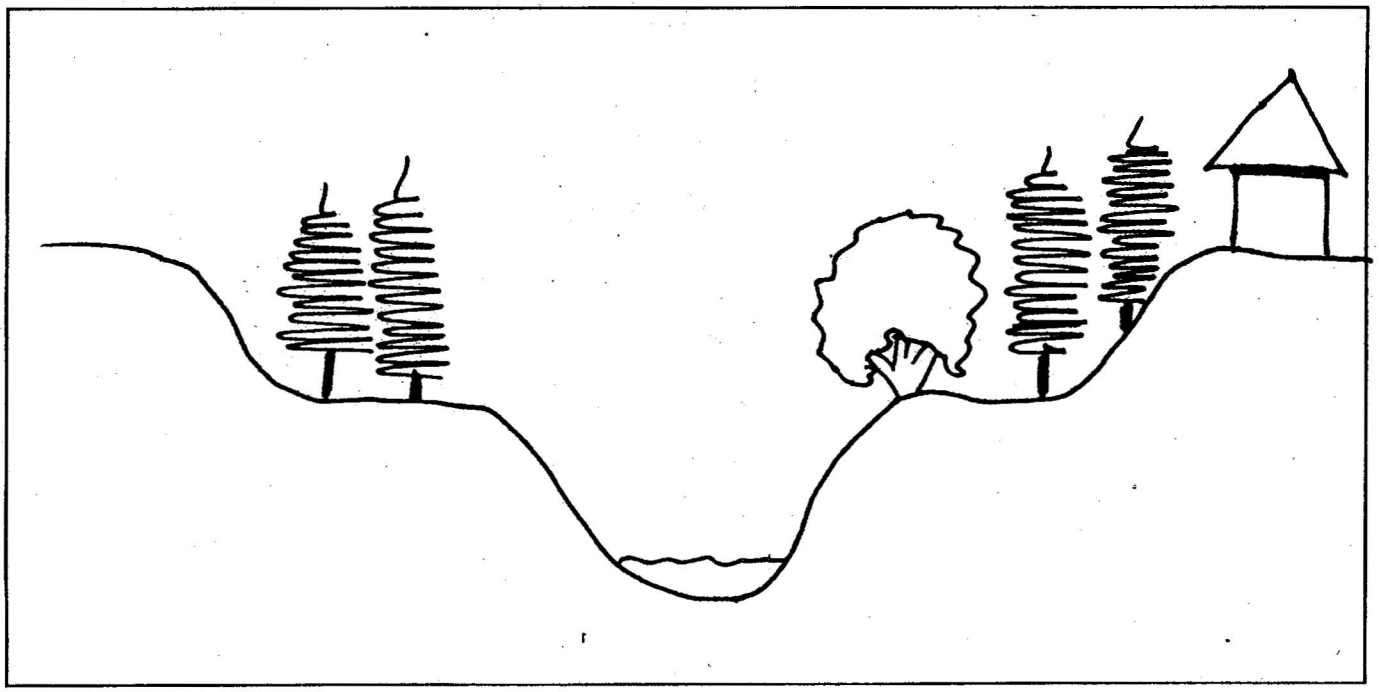
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Logged area with many logging roads in area.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-5 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-5 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-5 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |
| **Total Points:** | | 8 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-5 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-5 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 17 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-6 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 2200

**Investigators:** PF/JF **Hydrologic Basin:** Pacific/Patterson

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 2-10 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** varies | feet |

**LWI Wetland Code:** PAC-1D, 1F

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Bandon fine sandy loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☒ |
| **Residential:** | ☐ | **Forestry:** | ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Rubus ursinus* |
| *Pinus contorta* | |
| *Rubus spectabilis* | |
| *Tsuga heterophylla* | |
| *Vaccinium ovatum* | |
| *Rhamnus purshiana* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-6 L/R**

**Date:** 3/9/99 **Investigators:** PF/JF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120 / 50(L) 120(R) **feet**

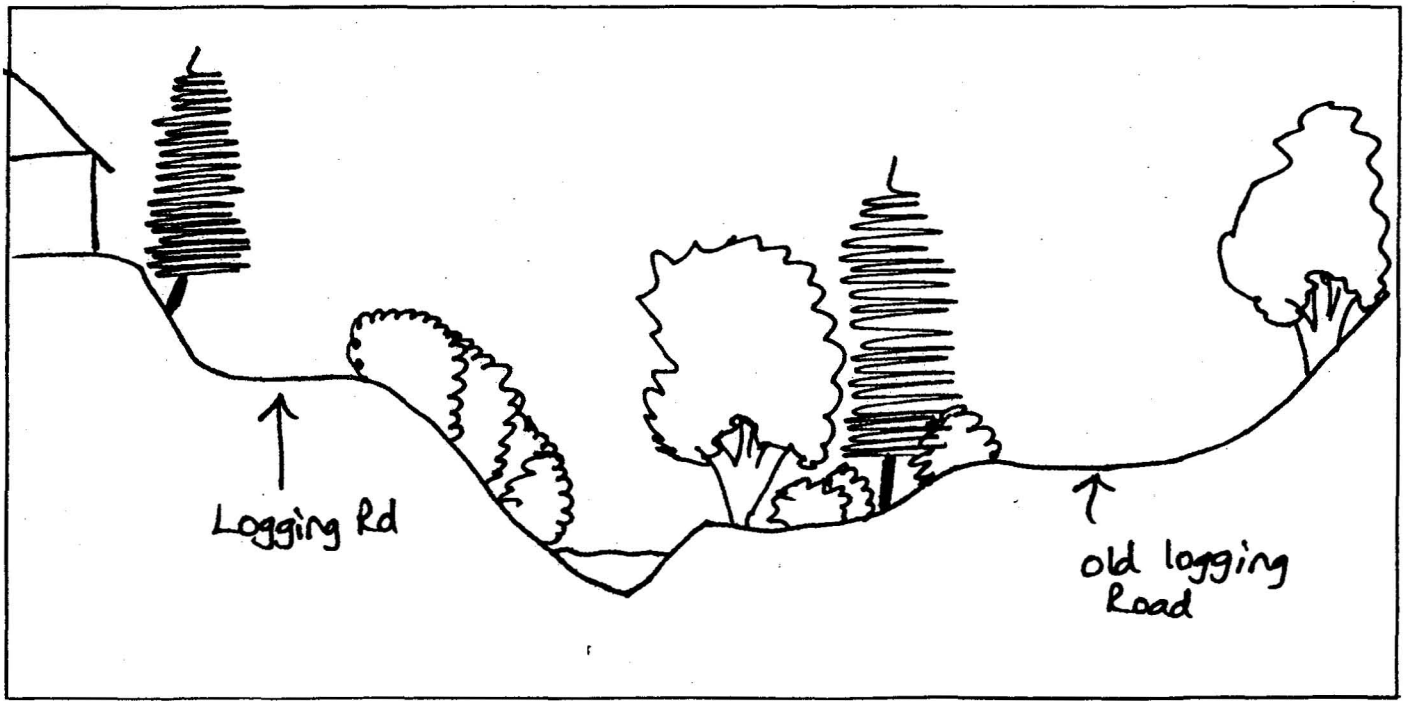
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Logged area with some remaining trees in riparian area. Many logging roads and culverts. Residential development at lower end, left side.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-6 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-6 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-6 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 6

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-6 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-6 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 19

**Function:** **High (19-23 pts)** **Medium (13-18 pts)** **Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/18/99 **Riparian Code:** R-7 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 200

**Investigators:** PF/JVS **Hydrologic Basin:** Pacific/Patterson Creek

### WATER RESOURCE INFORMATION

| **Water Resource:** | | **Width:** | |
|---|---|---|---|
| **Stream/River:** | | **Width:** | feet |
| **Lake/Pond:** | | **Width:** | feet |
| **Wetland:** | x | **Width:** | 20-50 feet |

**LWI Wetland Code:** PAC-1E

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:**

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☐ | **Forestry:** ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Cytisus scoparius* | *Rubus discolor* |
| *Alnus rubra* | *Polystichum munitum* |
| *Thuja plicata* | *Agrostis tenuis* |
| *Rubus spectabilis* | |
| *Rubus discolor* | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-7 L/R**

**Date:** 2/18/99 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120' / 120 L/R **feet**

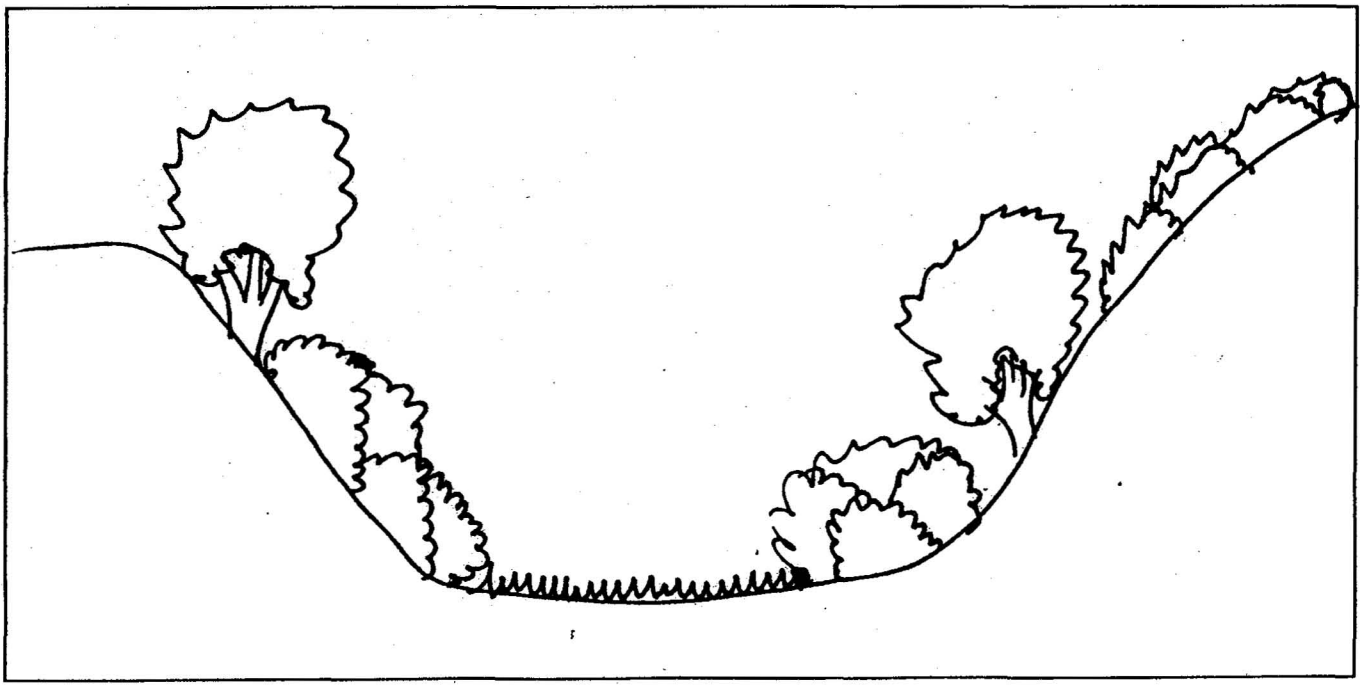
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Logged over area on swale adjacent to Patterson Creek tributary. No channel.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-7 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 11 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-7 L/R

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-7 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** X LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-7 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-7 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 16

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-8 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 2200

**Investigators:** PF/JF **Hydrologic Basin:** Pacific/Patterson Creek

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 2 - 10 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** varies | feet |

**LWI Wetland Code:** PAC-1F

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Bandon fine sandy loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☒ |
| **Residential:** | ☐ | **Forestry:** | ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Pinus contorta* | *Rubus ursinus* |
| *Vaccinium ovatum* | *Blechnum spicant* |
| *Alnus rubra* | *Rubus spectabilis* |
| *Rubus spectabilis* | |
| *Rhamnus purshiana* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-8 L/R**

**Date:** 3/9/99 **Investigators:** PF/JF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120 L/R **feet**

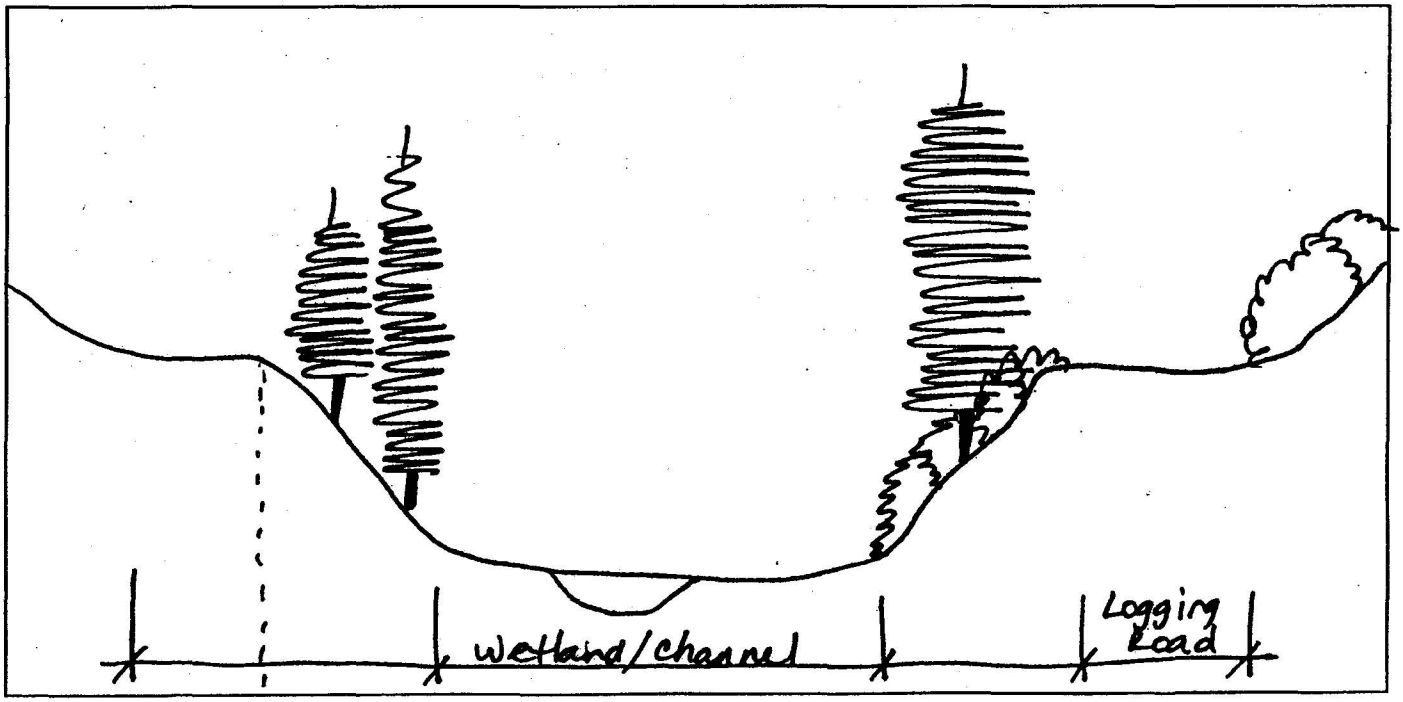
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Logged area with some remaining trees in riparian area. Many logging roads and culverts. Suspended culvert at east end of reach is a fish barrier.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-8 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 13 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-8 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-8 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-8 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-8 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 21 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/17/98 **Riparian Code:** R-9 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** -

**Investigators:** PF/JVS/JF **Hydrologic Basin:** Pacific/Patterson Creek

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | x | **Width:** | 2-10 | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 10-80 | feet |

**LWI Wetland Code:** PAC-1H, 1J, 1G

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:**

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Blechnum spicant* |
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Gaultheria shallon* | *Rubus spectabilis* |
| *Vaccinium ovatum* | *Carex obnupta* |
| *Rubus spectabilis* | |
| *Vaccinium parviflorium* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-9 L/R**

**Date:** 11/17/98 **Investigators:** PF/JVS/JF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120' / 120' L/R **feet**

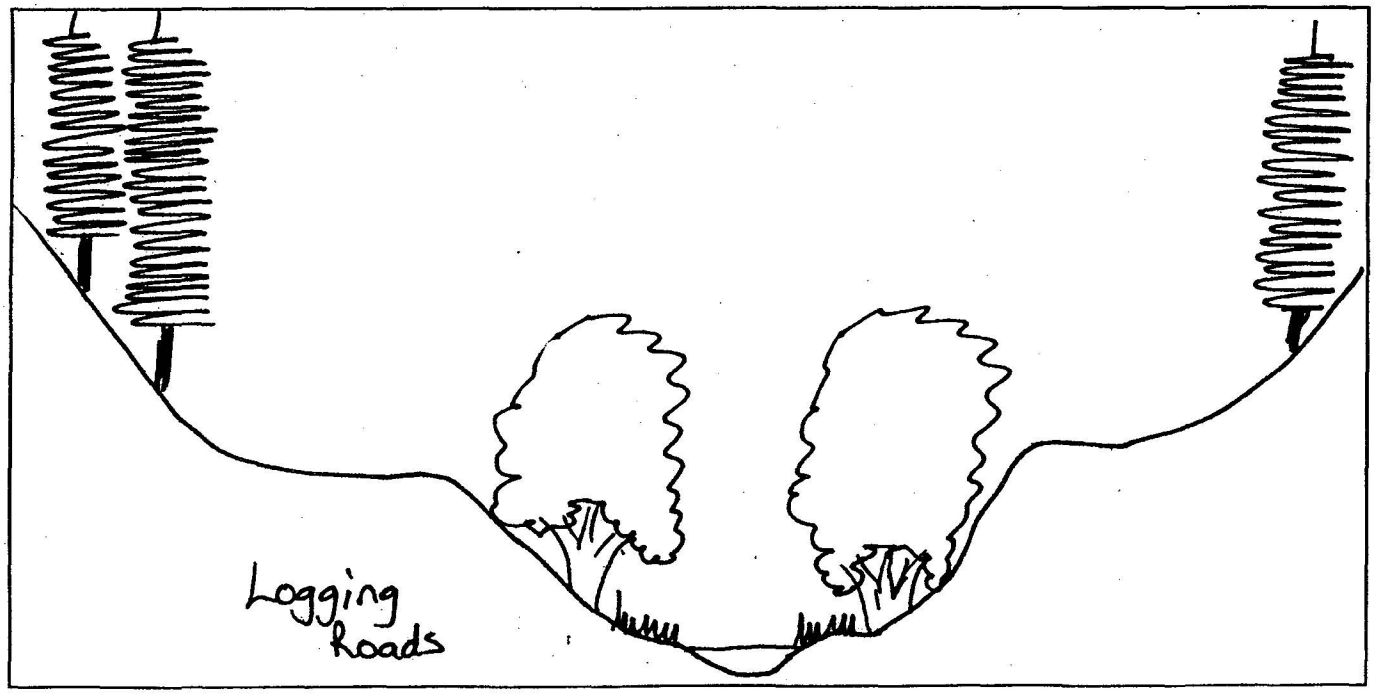
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Tributary to Patterson Creek. Upper end of drainage from golf course. Fish barrier culvert at east end of reach, below PAC-1G. Some disturbance from logging roads.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-9 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 13 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-9 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 7

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-9 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |
| **Total Points:** | | 8 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-9 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-9 L/R

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 19

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/16/98 **Riparian Code:** R-10

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** -

**Investigators:** JF/CR **Hydrologic Basin:** Pacific/Patterson Creek

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 15 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** | feet |

**LWI Wetland Code:** PAC-1K, 1L

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:**

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☒ | **Undeveloped:** | ☒ |
| **Residential:** | ☐ | **Forestry:** | ☒ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Blechnum spicant* |
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Gaultheria shallon* | *Rubus spectabilis* |
| *Vaccinium ovatum* | *Carex obnupta* |
| *Rubus spectabilis* | |
| *Vaccinium parviflorum* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

| RIPARIAN CODE |
| --- |
| **R-10** |

**Date:** 11/16/98 **Investigators:** JF/CR

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120' / 120' L/R **feet**

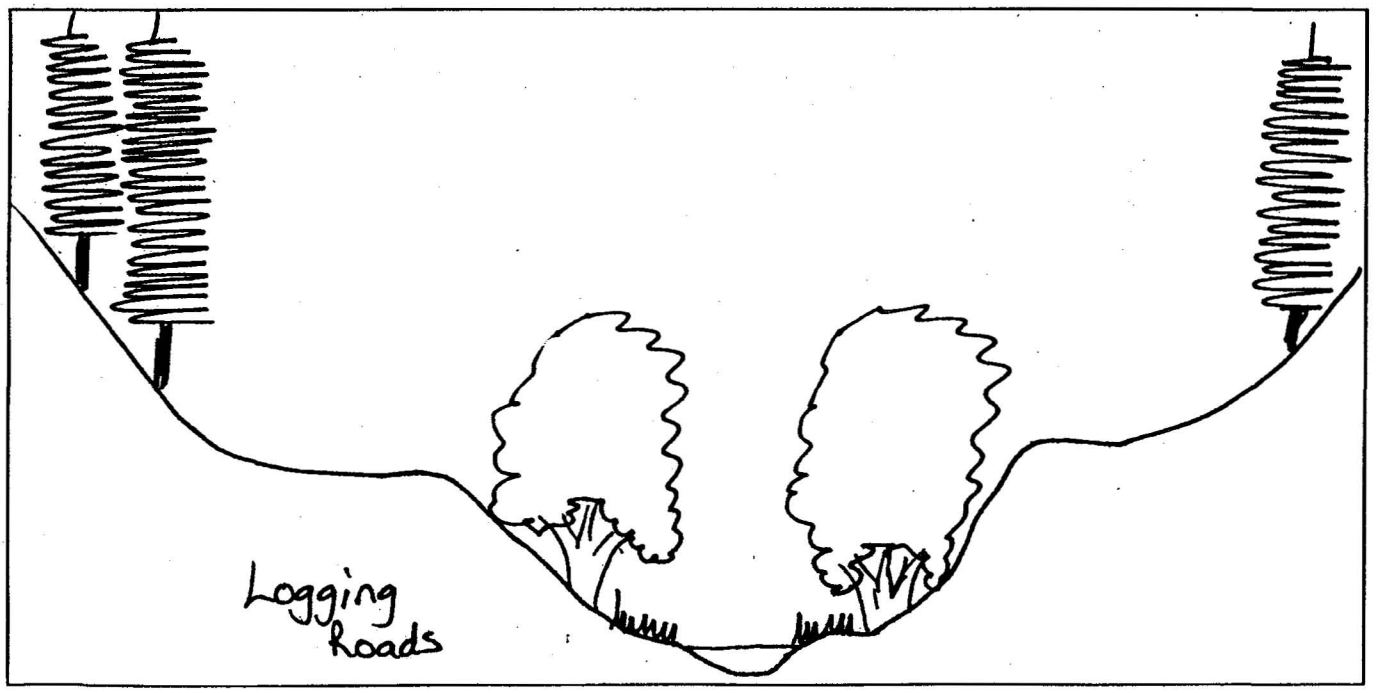
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Tributary to Patterson Creek. Upper end of drainage from golf course. Fish barrier culvert at east end of reach, below PAC-1G. Some disturbance from logging roads.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-10**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-10**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 7

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-10**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |
| **Total Points:** | | 8 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-10**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-10

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 19 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/17/99 **Riparian Code:** R-11 L/R

**On-site:** ☐ **Off-Site:** ☒ **Reach Length:** 340

**Investigators:** PF/JVS **Hydrologic Basin:** Pacific

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | Stream/River: | x | Width: 400 | feet |
| | Lake/Pond: | | Width: | feet |
| | Wetland: | x | Width: 60-80 | feet |

**LWI Wetland Code:** PAC-5B

**Water present year-round:** Yes ☒ No ☐

**Are salmonids present in the adjacent water resource?** Yes ☐ No ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes ☐ No ☒

**Within FEMA-mapped 100-year floodplain:** Yes ☒ No ☐

**Mapped soil series:** Depoe loam

**Adjacent Land Uses?** (Check as many as needed)

**Agriculture:** ☐ **Roads:** ☒
**Commercial/Indus.:** ☒ **Undeveloped:** ☐
**Residential:** ☒ **Forestry:** ☐

| Woody vegetation (trees, shrubs, vines >1 meter) | Herbaceous vegetation (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Rubus discolor* |
| *Pinus contorta* | |
| *Rubus discolor* | |
| *Cytisus scoparius* | |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☒ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-11 L/R**

**Date:** 2/17/99 **Investigators:** PF/JVS

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50 / 20(L) 30(R) **feet**

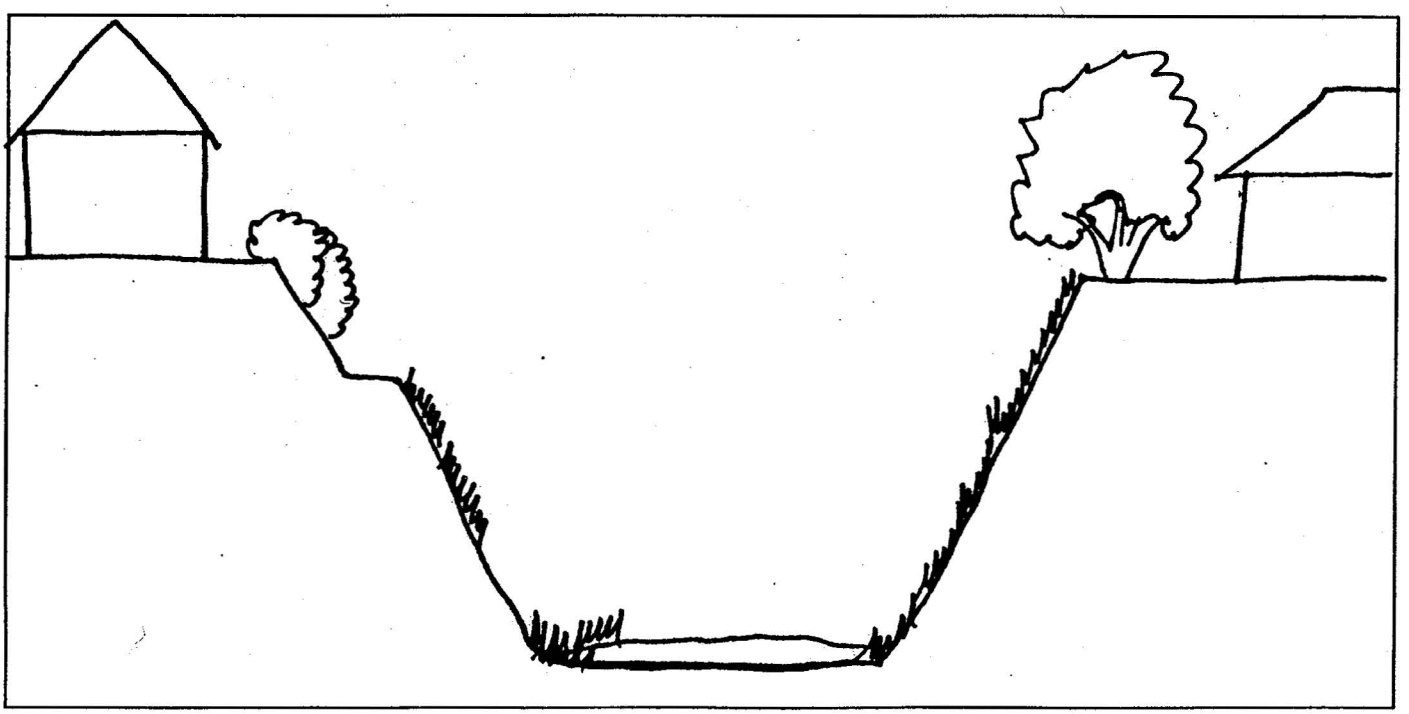
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☐ **Reference site** ☒ **Code** R-5

**Comments:** Disturbed riparian area to both sides. Most of riparian area disturbed and invaded by nuisance plants. Riparian area defined by development at top of slope.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-11 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 10

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-11 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-11 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-11 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 2 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-11 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 14

**Function:** **High (19-23 pts)** **Medium (13-18 pts)** **Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/17/99 **Riparian Code:** R-12-L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 400

**Investigators:** PF/JVS **Hydrologic Basin:** Pacific

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | | **Width:** | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 10-80 | feet |

**LWI Wetland Code:** PAC-5B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Nelscott loam, Depoe loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Pinus contorta* | *Blechnum spicant* |
| *Gaultheria shallon* | *Polystichum munitum* |
| *Rubus spectabilis* | |
| *Vaccinium ovatum* | |
| *Lonicera involucrata* | |
| *Oemlaria cerasiformis* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-12-L/R**

**Date:** 2/17/99 **Investigators:** PF/JVS

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50/50 L/R **feet**

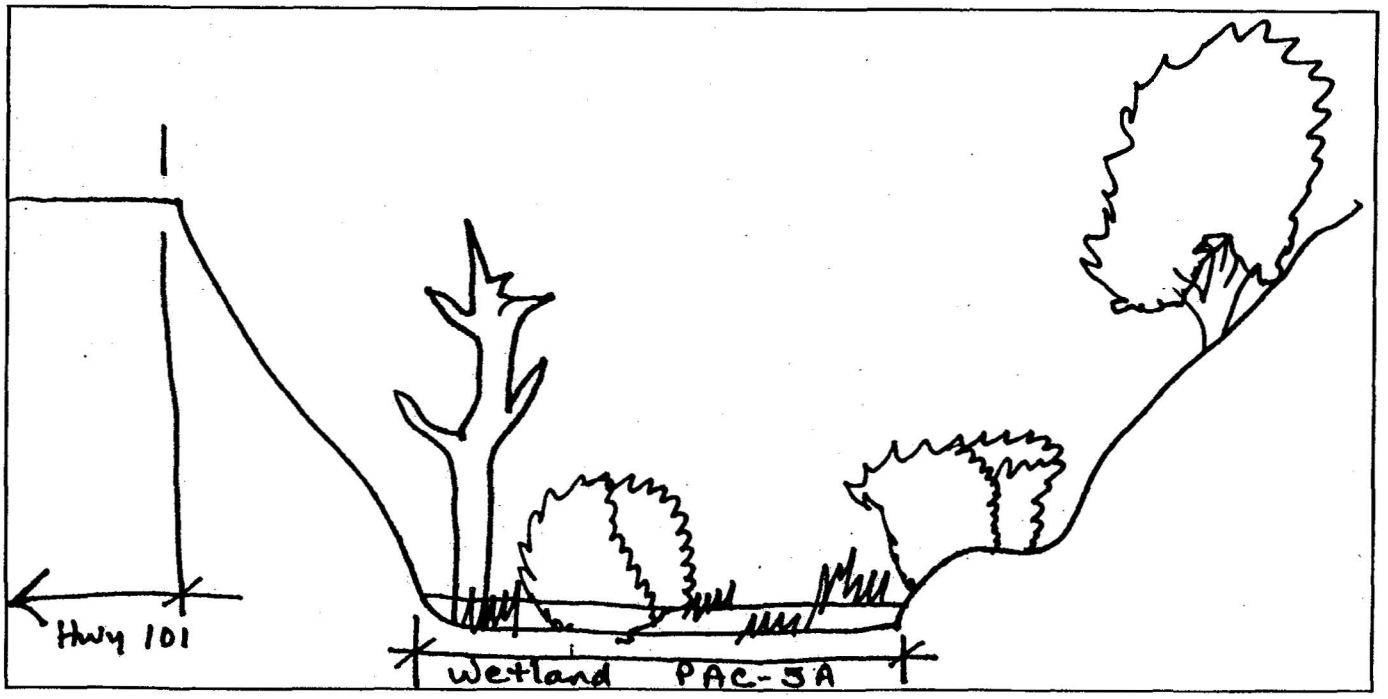
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Hwy 101 to east defines edge of riparian area.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-12-L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-12-L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 9

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-12-L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-12-L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-12-L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 18 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/17/99 **Riparian Code:** R-13

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 700

**Investigators:** PF/JVS **Hydrologic Basin:** Pacific

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | | **Width:** | - | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 10-80 | feet |

**LWI Wetland Code:** PAC-5A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☒ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Nelscott loam, Depoe loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Pinus contorta* | *Blechnum spicant* |
| *Gaultheria shallon* | *Polystichum munitum* |
| *Rubus spectabilis* | |
| *Vaccinium ovatum* | |
| *Lonicera involucrata* | |
| *Oemleria cerasiformis* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-13**

**Date:** 2/17/99 **Investigators:** PF/JVS

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50/20-50(L) 20(R) **feet**

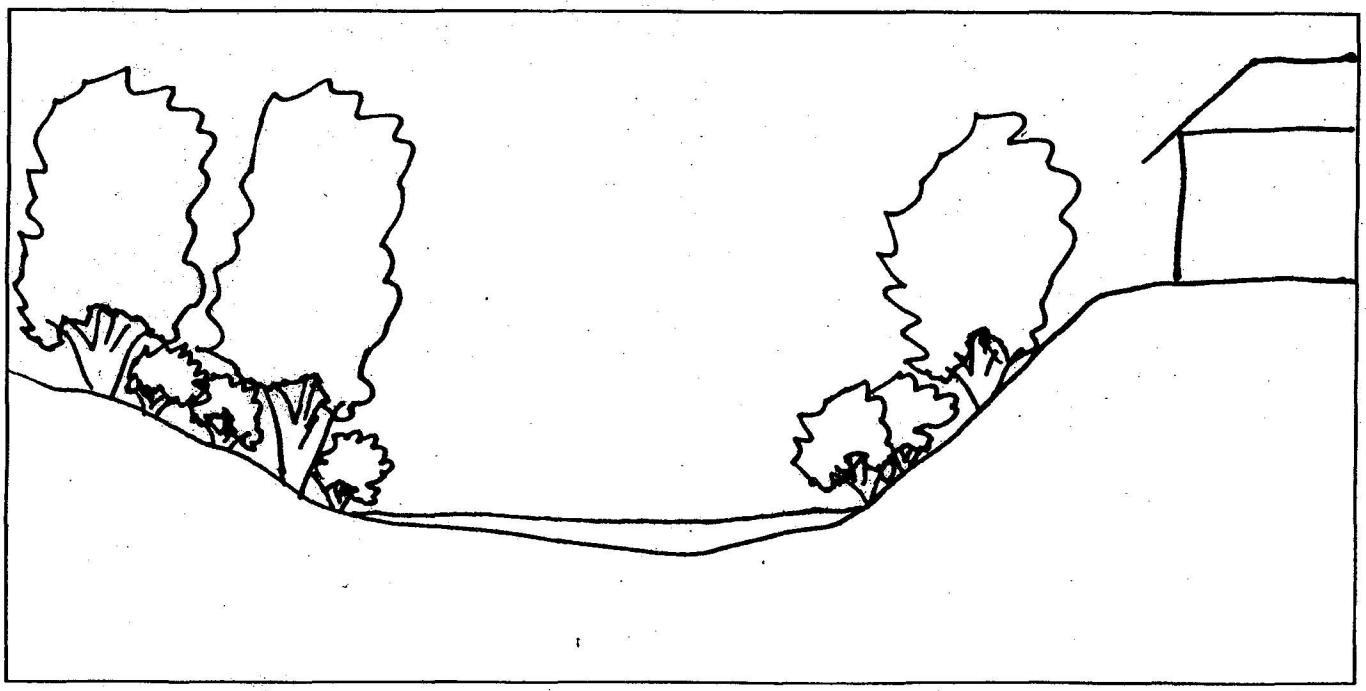
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Residential areas to left and right. Drains to ocean.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-13**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-13**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 9

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-13**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-13**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

***Questions continued on next page***

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-13

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 18 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/17/98 **Riparian Code:** R-14 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:**

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Red River

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | x | **Width:** | 2 - 10 | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 30 - 40 | feet |

**LWI Wetland Code:** ALS-1A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:**

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Athyrium felix-femina* |
| *Rubus spectabilis* | *Polystichum munitum* |
| *Rubus parviflorus* | *Carex obnupta* |
| *Sambucus racemosa* | *Lysichitum americanum* |
| *Tsuga heterophylla* | |
| *Vaccinium parviflorum* | |
| *Picea sitchensis* | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-14 L/R**

**Date:** 11/17/98 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120(L) 50-120(R) **feet**

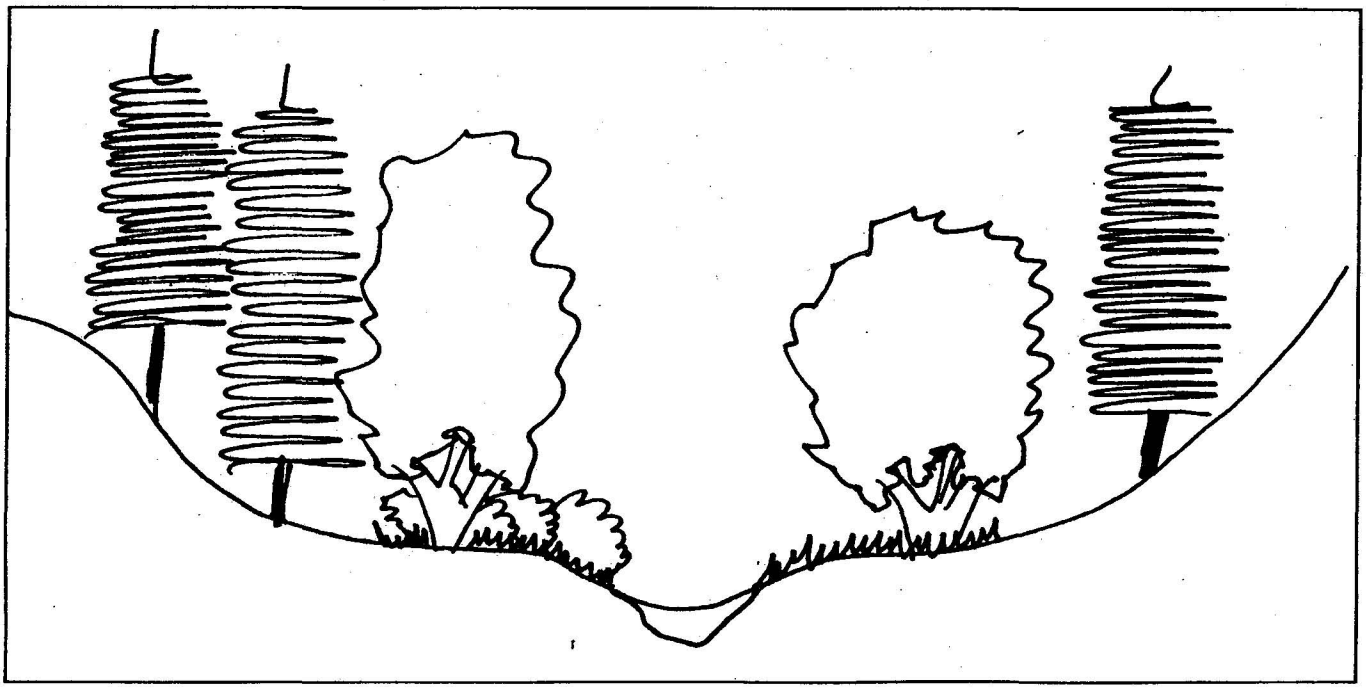
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Tributary of Red River culverted under road. Flows north into the Red River Canal/Ditch. Mostly well-vegetated.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-14 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-14 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-14 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-14 L/R**

# WILDLIFE HABITAT

**12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** — **Score**

a. More than 2 layers ..... 3 pts
b. 2 layers ..... 2 pts — **2**
c. 1 layer, or unvegetated ..... 1 pt

**13. What is the dominant vegetation layer in the riparian area?**

a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high ..... 3 pts
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high ..... 2 pts — **3**
c. Bare ground ..... 1 pt

**14. Does woody vegetation hang over the edge of the water?**

a. Yes ..... 2 pts — **2**
b. No ..... 1 pt

**15. Is large woody debris present within the riparian area?**

a. Yes ..... 3 pts — **3**
b. No ..... 1 pt

**16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?**

a. Greater than 40% ..... 3 pts
b. Between 10% and 40% ..... 2 pts — **3**
c. Less than 10% ..... 1 pt

***Questions continued on next page***

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-14 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 20 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/16/98 **Riparian Code:** R-15 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 180'

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Red River

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 3 - 10 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** ALS-1B

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Lint silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Athyrium felix-femina* |
| *Rubus spectabilis* | *Festuca arundinacea* |
| *Gaultheria shallon* | *Gaultheria shallon* |
| *Vaccinium ovatum* | |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☐ >25% ☒

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☒ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-15 L/R**

**Date:** 11/16/98 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/ 15(L); 100-120(R) **feet**

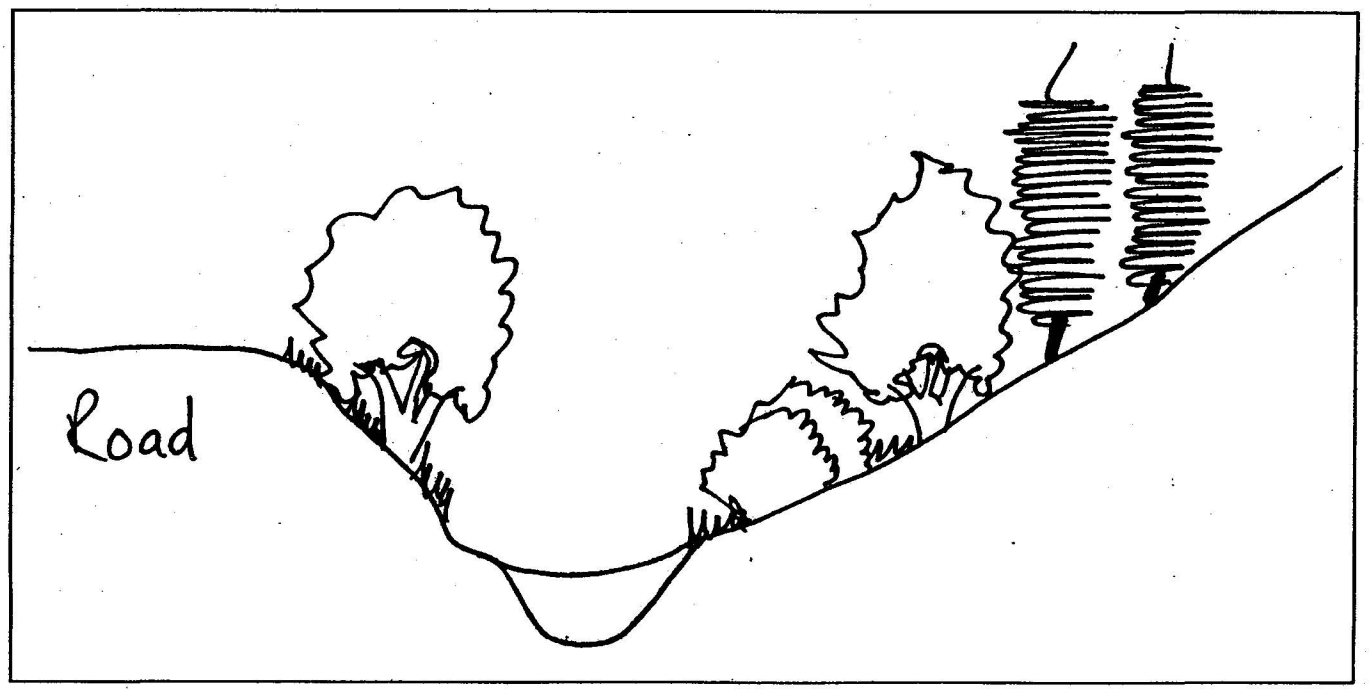
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Short reach of Red River tributary. Defined by road to left and disturbed to right. Culverted drainage at both ends. Drains north to Red River ditch along Starr.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-15 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 1 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 9 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-15 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-15 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-15 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 2 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-15 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 12

**Function:** **High (19-23 pts)** **Medium (13-18 pts)** **Low (8-12 pts)**

**FUNCTION IS:** LOW

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/18/99 **Riparian Code:** R-16 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1400'

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Red River

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 4-6 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 30-180 | feet |

**LWI Wetland Code:** ALS-2A, 2B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Ferrelo loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☒ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Gaultheria shallon* |
| *Tsuga heterophylla* | *Rubus ursinus* |
| *Gaultheria shallon* | *Polystichum munitum* |
| *Vaccinium parvifolium* | *Blechnum spicant* |
| *Rubus spectabilis* | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-16 L/R**

**Date:** 2/18/99 **Investigators:** PF/JVS

**Dominant tree species:** *Tsuga heterophylla* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120 L/R **feet**

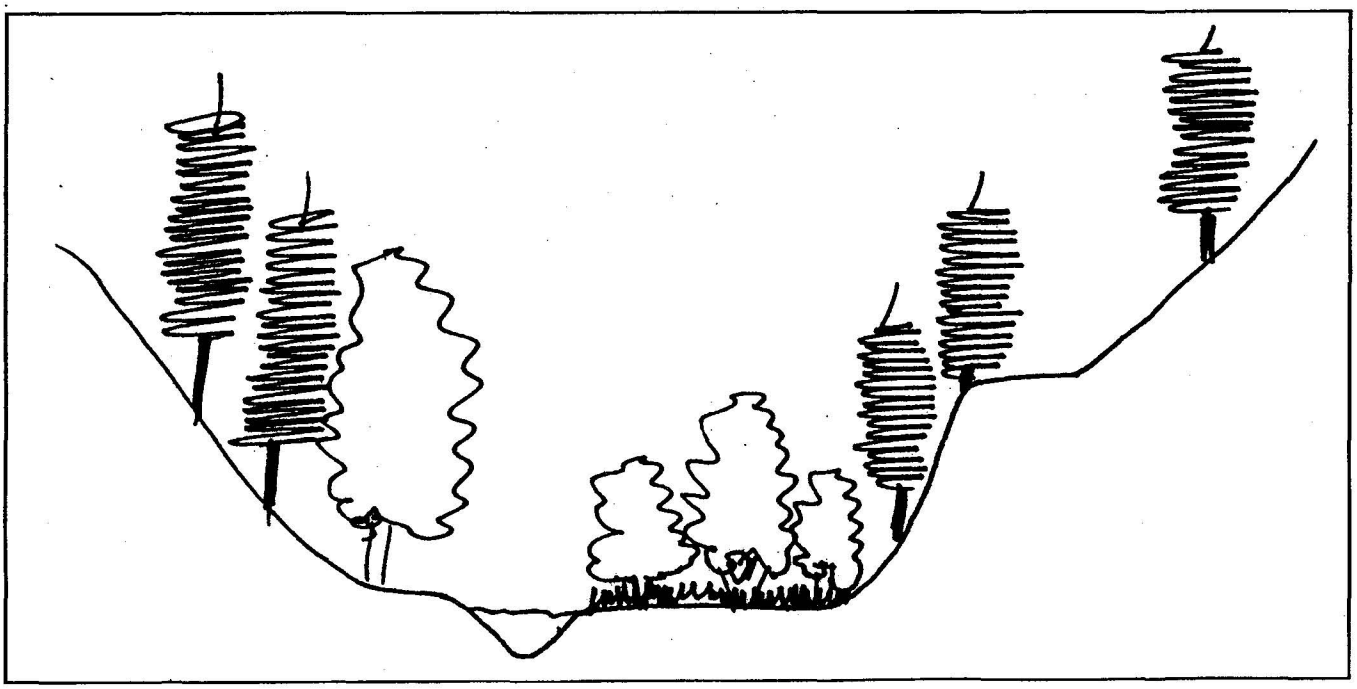
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Nicely vegetated, relatively undisturbed riparian area. Some old logging roads and culverts. Stream and wetland are well-shaded.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-16 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-16 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-16 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |
| **Total Points:** | | 6 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-16 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-16 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 23

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/18/99 **Riparian Code:** R-17 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 700'

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Red River

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 4-6 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 30-50 | feet |

**LWI Wetland Code:** ALS-2B

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Ferrelo loam

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Gaultheria shallon* |
| *Tsuga heterophylla* | *Rubus ursinus* |
| *Gaultheria shallon* | *Polystichum munitum* |
| *Vaccinium parvifolium* | *Blechnum spicant* |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-17 L/R**

**Date:** 2/18/99 **Investigators:** PF/JVS

**Dominant tree species:** *Tsuga heterophylla* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/50-120L 20-50R **feet**

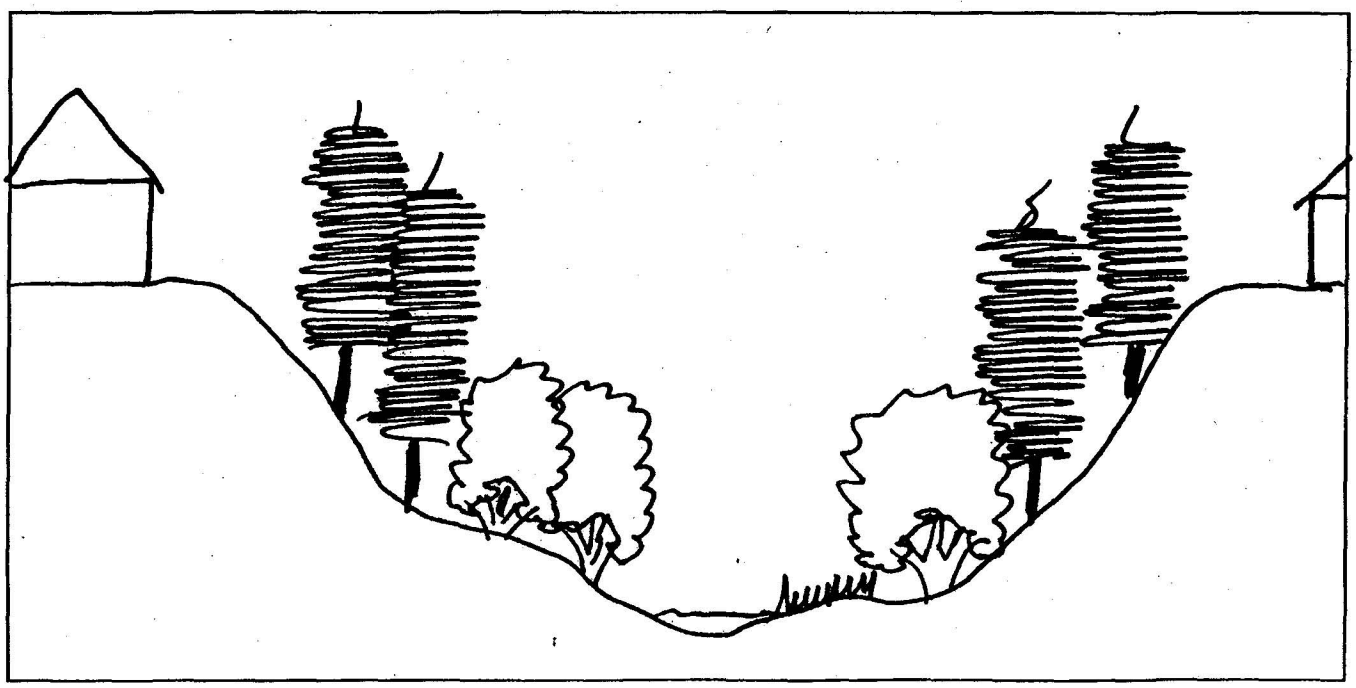
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Nicely vegetated, relatively undisturbed riparian area. Some old logging roads and culverts

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-17 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 12 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-17 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-17 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |
| **Total Points:** | | **8** |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-17 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-17 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 21 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/16/98 **Riparian Code:** R-18 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1000'

**Investigators:** CR/JF **Hydrologic Basin:** Alsea Bay/Red River

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | x | **Width:** | 4-8 | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 20-150 | feet |

**LWI Wetland Code:** ALS-2A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Fendall gravelly clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | | |
|---|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ | **Public:** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ | |
| **Residential:** ☒ | **Forestry:** ☐ | |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Polystichum munitum* |
| *Rubus spectabilis* | *Blechnum spicant* |
| *Picea sitchensis* | Turf grasses |
| *Gaultheria shallon* | |
| *Tsuga heterophylla* | |
| *Vaccinium ovatum* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-18 L/R**

**Date:** 11/16/98 **Investigators:** CR/JF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/ 80-120(L); 120(R) **feet**

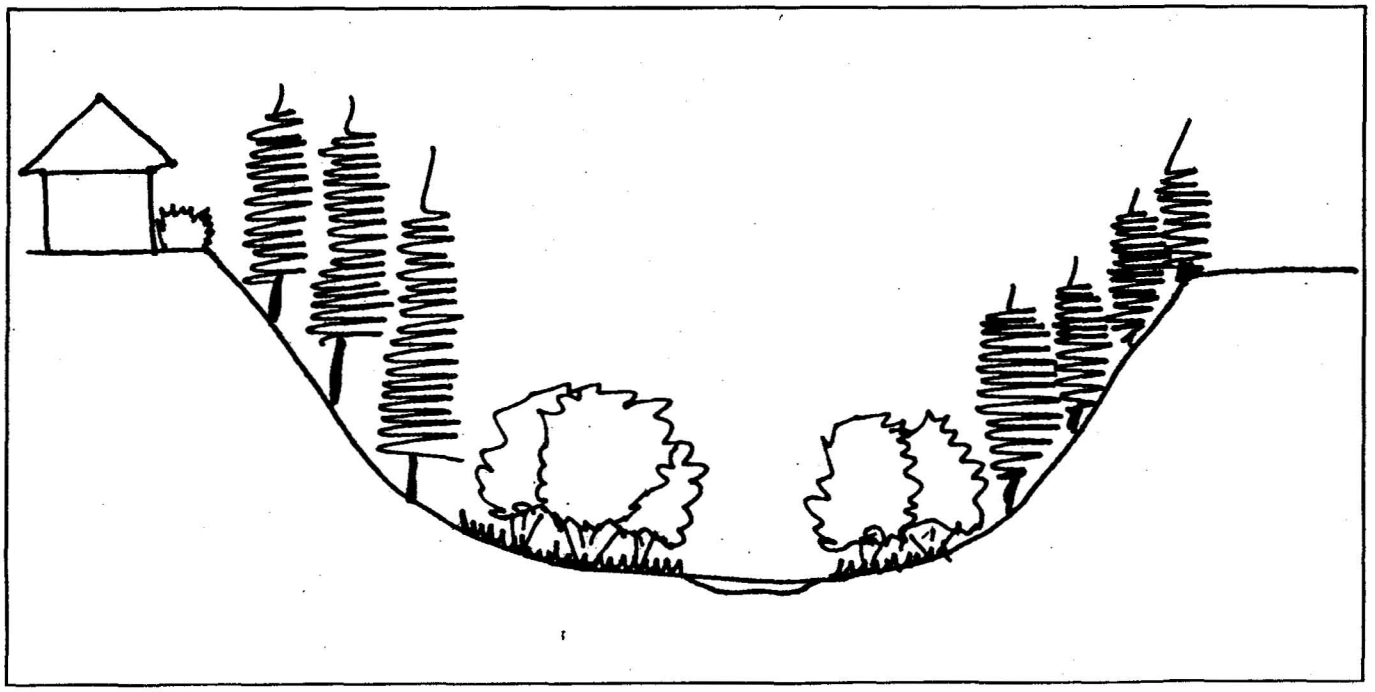
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Forested riparian area at north end of Red River drainage, south of Starr Street. [Confined channel adjacent to ballfields at Hwy 34. Drains north via culvert.] West side (left) defined by existing road and residences at top of slope.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-18 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-18 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-18 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 6

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-18 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-18 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 23 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/16/98 **Riparian Code:** R-19 R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 700'

**Investigators:** JF/CR **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 15 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** ALS-4A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☐ |
| **Commercial/Indus.:** | ☒ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Pinus contorta* | *Gaultheria shallon* |
| *Sambucus cerulea* | *Rubus discolor* |
| *Rubus spectabilis* | *Rubus ursinus* |
| | *Festuca arundinacea* |
| | *Ilex aquifolium* |
| | *Bromus sp.* |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☐ <10% ☒

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 R**

**Date:** 11/16/98 **Investigators:** JF/CR

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50/10 L/R **feet**

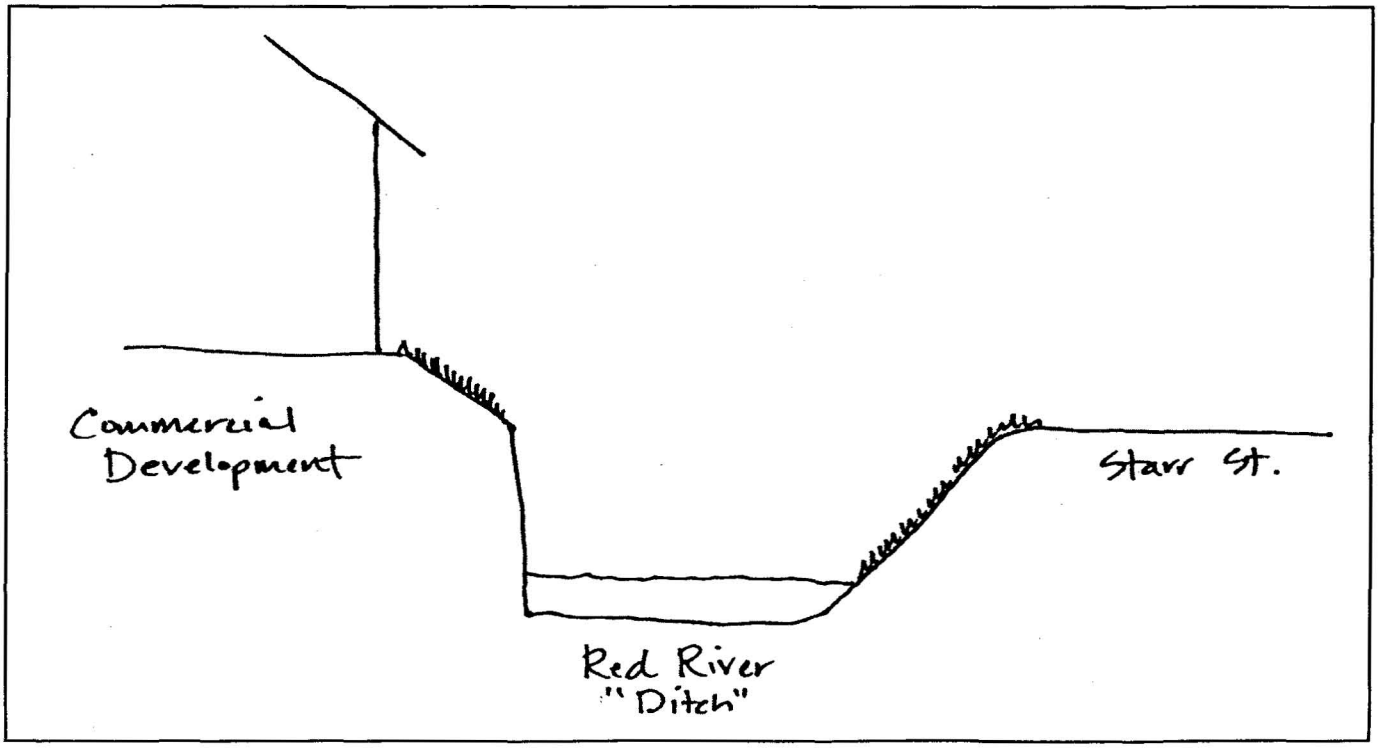
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Roadside ditch, up to 15' wide channel, water approximately 1' deep with shallow inundation on narrow bench. Roadside vegetation--*Rubus discolor*. Other side is primarily *Pinus contorta* and turf grasses.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 1 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 10

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 1 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 11 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** LOW

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/16/98 **Riparian Code:** R-19 L

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 700'

**Investigators:** JF/CR **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 15 (maximum) | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** ALS-4A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☐ |
| **Residential:** ☐ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| | *Rubus discolor* |
| | *Festuca arundinacea* |
| | *Carex obnupta* |
| | *Gaultheria shallon* |
| | *Plantago lanceolata* |
| | *Rubus ursinus* |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☐ >25% ☒

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☐ <10% ☒

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 L**

**Date:** 11/16/98 **Investigators:** JF/CR

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50/10 L/R **feet**

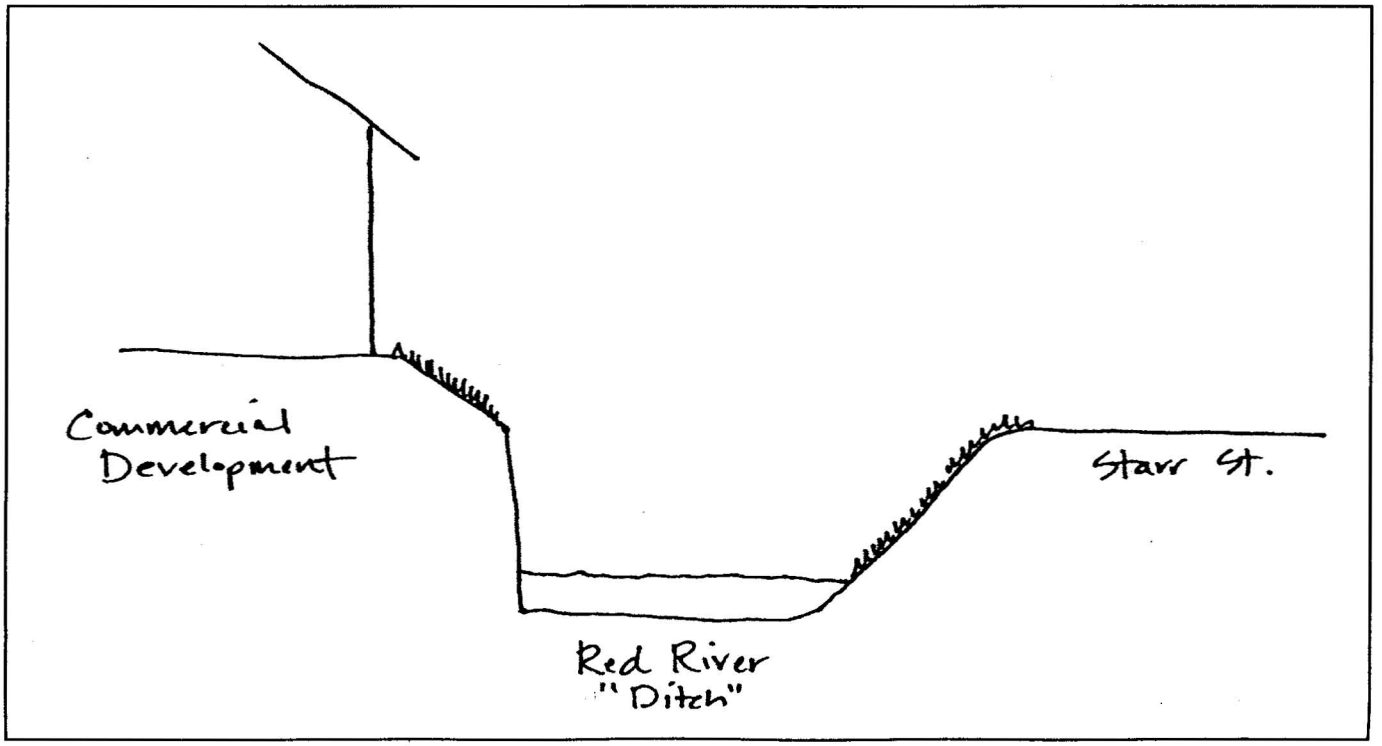
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Roadside ditch, up to 15 feet wide channel. Watter approximately one foot deep with shallow inundation on narrow bench. Roadside vegetation is *Rubus discolor* . Other side is primarily *Pinus contorta* and turf grasses.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 L**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 1 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 1 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 9 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-19 L

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 L**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-19 L**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 1 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-19 L

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 11 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** LOW

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 6/11/99 **Riparian Code:** R-20 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1150'

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 2-10 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** ALS-3

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Ferrello loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☒ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Rubus discolor* |
| *Alnus rubra* | *Festuca arundinacea* |
| *Vaccinium ovatum* | *Pteridium aquilinum* |
| *Rubus spectabilis* | |
| *Tsuga heterophylla* | |
| *Rubus discolor* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-20 L/R**

**Date:** 6/11/99 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/ 50-120(L) 50-120(R) **feet**

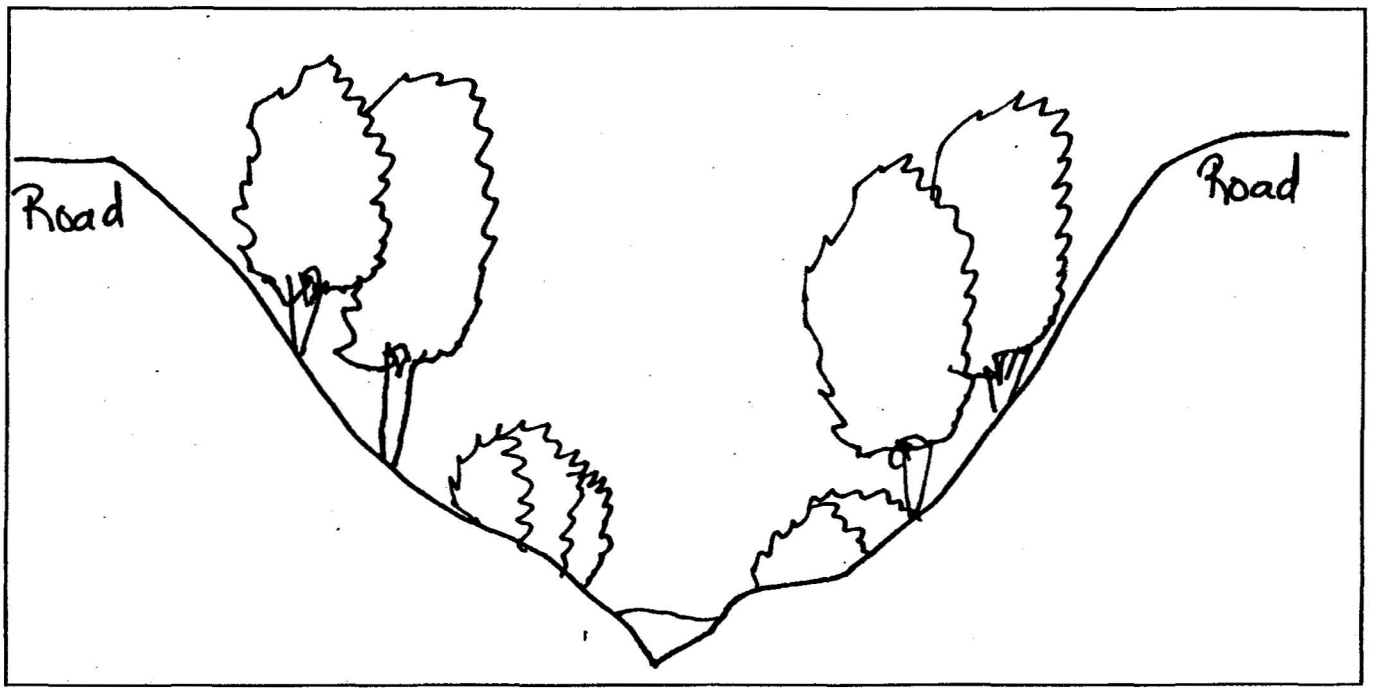
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Steep ravine at base of Crestline and Cedar Drive. Seasonal drainage to north. Shallow ditch at edge of ballfields at north end, otherwise forested. Roads and residential at top of steep slope.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-20 L/R**

## WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | **11** |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-20 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-20 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-20 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-20 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 18 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/17/98 **Riparian Code:** R-21 L

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 600'

**Investigators:** CR/JF **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 30-40 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** ALS-4B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

**Agriculture:** ☐ **Roads:** ☒
**Commercial/Indus.:** ☐ **Undeveloped:** ☐
**Residential:** ☐ **Forestry:** ☐

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Athyrium felix-femina* |
| *Rubus spectabilis* | *Polystichum munitum* |
| *Rubus parviflorus* | *Carex obnupta* |
| *Sambucus racemosa* | *Lysichitum americanum* |
| *Tsuga heterophylla* | |
| *Vaccinium parviflorum* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☐ >25% ☒

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☐ <10% ☒

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 L**

**Date:** 11/17/98 **Investigators:** CR/JF

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50/10 **feet**

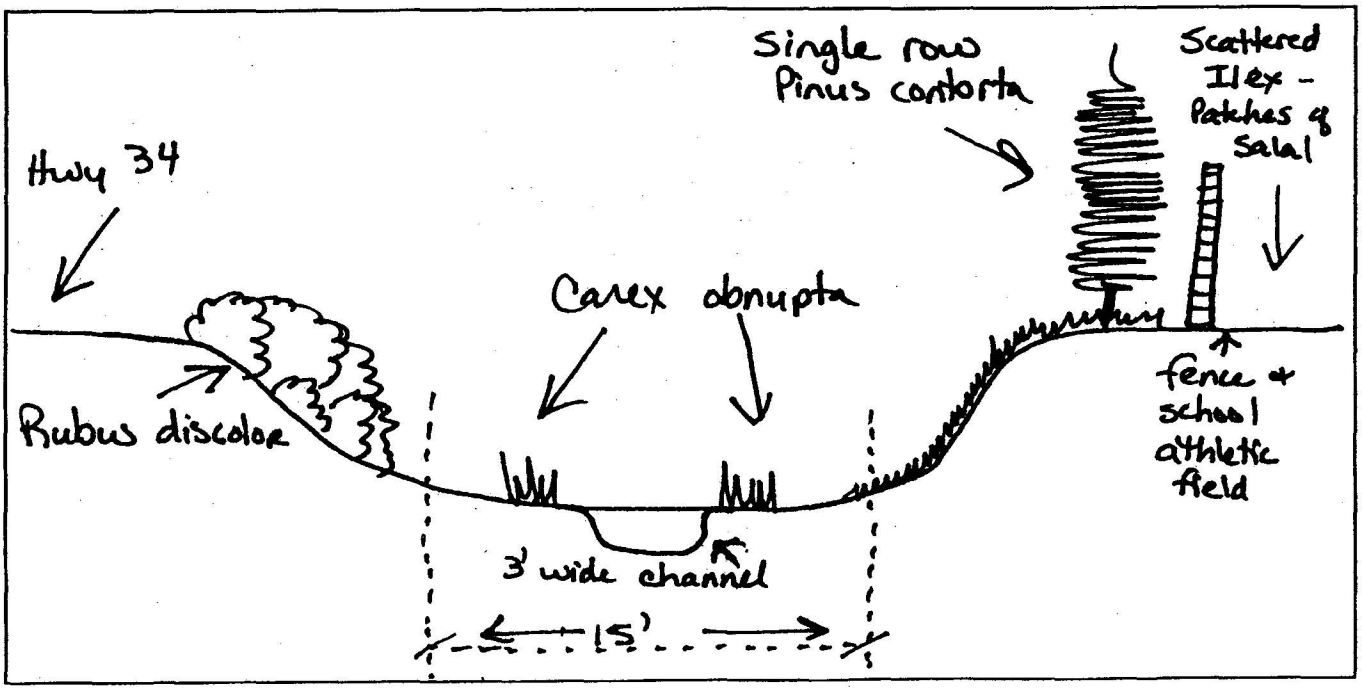
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Red River "canal"/ditch by Highway 34 and high school. This spot is very disturbed. Fill nearby to right of bank and garbage everywhere. Ball fields to right.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 L**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 1 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 1 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 9 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 L**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 L**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |

**Total Points:** 4

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 L**

# WILDLIFE HABITAT

| | | | Score |
|---|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | | |
| a. More than 2 layers | 3 pts | | |
| b. 2 layers | 2 pts | | 1 |
| c. 1 layer, or unvegetated | 1 pt | | |
| **13. What is the dominant vegetation layer in the riparian area?** | | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | | 2 |
| c. Bare ground | 1 pt | | |
| **14. Does woody vegetation hang over the edge of the water?** | | | |
| a. Yes | 2 pts | | 1 |
| b. No | 1 pt | | |
| **15. Is large woody debris present within the riparian area?** | | | |
| a. Yes | 3 pts | | 1 |
| b. No | 1 pt | | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | | |
| a. Greater than 40% | 3 pts | | |
| b. Between 10% and 40% | 2 pts | | 1 |
| c. Less than 10% | 1 pt | | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 L**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 11 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** LOW

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 11/17/98 **Riparian Code:** R-21 R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 600'

**Investigators:** CR/JF **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 30-40 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:** ALS=4B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

| | | |
|---|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ | **Other** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☐ | ball field |
| **Residential:** ☐ | **Forestry:** ☐ | |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Rubus ursinus* | *Athyrium felix-femina* |
| *Rubus spectabilis* | *Polystichum munitum* |
| *Rubus parviflorus* | *Carex obnupta* |
| *Sambucus racemosa* | *Lysichitum americanum* |
| *Tsuga heterophylla* | |
| *Vaccinium parviflorum* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☐ >25% ☒

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☐ <10% ☒

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 R**

**Date:** 11/17/98 **Investigators:** CR/JF

**Dominant tree species:** *Pinus contorta* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 50/10 **feet**

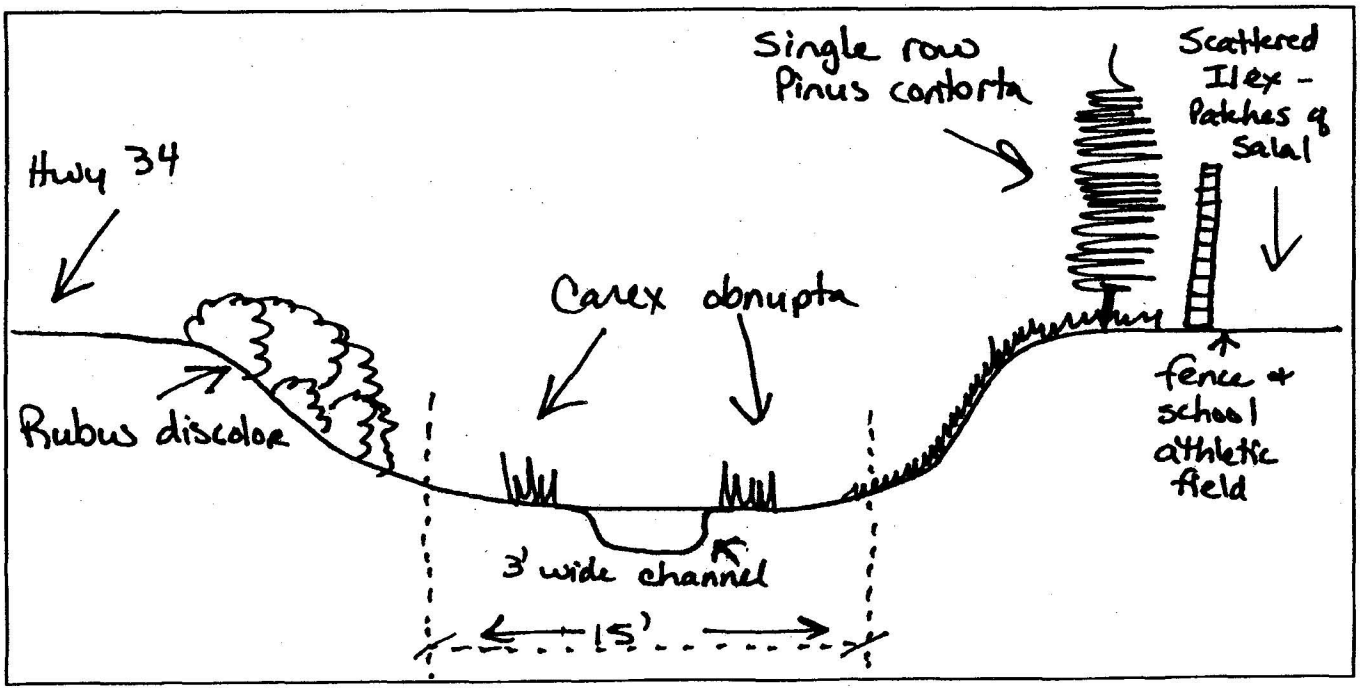
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Red River "canal"/ditch by Highway 34 and high school. This spot is very disturbed. Fill nearby to right of bank and garbage everywhere. Ball fields to right.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 1 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 10

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 R**

# WILDLIFE HABITAT

**12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?**

| | | Score |
|---|---|---|
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |

**13. What is the dominant vegetation layer in the riparian area?**

| | | Score |
|---|---|---|
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |

**14. Does woody vegetation hang over the edge of the water?**

| | | Score |
|---|---|---|
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |

**15. Is large woody debris present within the riparian area?**

| | | Score |
|---|---|---|
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |

**16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?**

| | | Score |
|---|---|---|
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 1 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-21 R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 12 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** LOW

# Riparian Characterization Form

## Waldport Riparian Inventory

**GENERAL INFORMATION**

**Date:** 10/28/98 **Riparian Code:** R-22 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 4,200/1,400

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Lint Slough

**WATER RESOURCE INFORMATION**

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | x | **Width:** | 400 | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 50-100 | feet |

**LWI Wetland Code:** ALS-12B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Clatsop silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Gaultheria shallon* |
| *Tsuga heterophylla* | *Rubus spectabilis* |
| *Rubus spectabilis* | *Polystichum munitum* |
| *Lonicera involucrata* | *Blechnum spicant* |
| *Sambucus racemosa* | |
| *Rhamnus purshiana* | |
| *Vaccinium ovatum* | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-22 L/R** .

**Date:** 10/28/98 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120 (L/R) **feet**

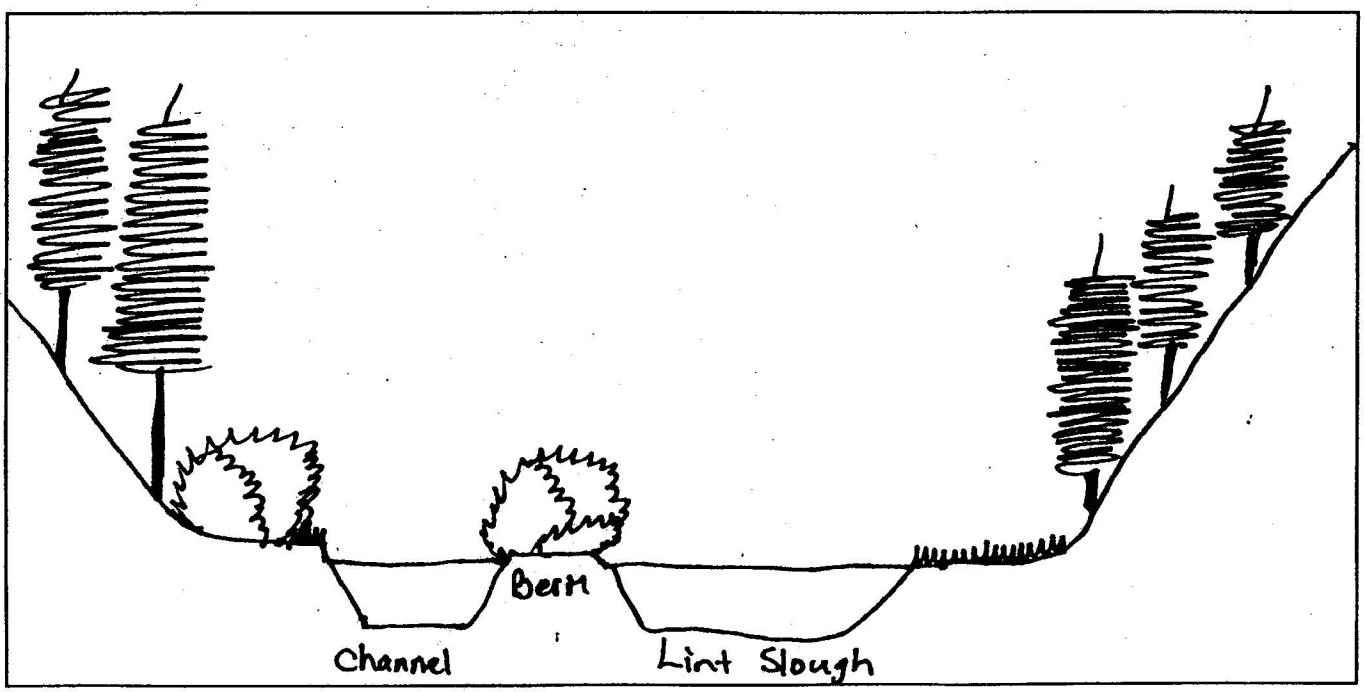
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Steep forested hillside adjacent to Lint Slough. South of tide gate. Well vegetated slopes east and west of slough.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-22 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-22 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 7

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-22 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |

**Total Points:** 5

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-22 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-22 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 22 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 10/28/98 **Riparian Code:** R-23 L

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1400'

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Lint Slough

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 200 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 400 | feet |

**LWI Wetland Code:** ALS-12A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Clatsop silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☐ | **Undeveloped:** | ☒ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Rubus spectabilis* | *Gaultheria shallon* |
| *Alnus rubra* | *Rubus spectabilis* |
| *Cytisus scoparius* | *Polystichum munitum* |
| | *Blechnum spicant* |
| | *Festuca arundinacea* |
| | *Dactylus glomerata* |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☐ >25% ☒

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☐ <10% ☒

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 L**

**Date:** 10/28/98 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 65'/110-120 **feet**

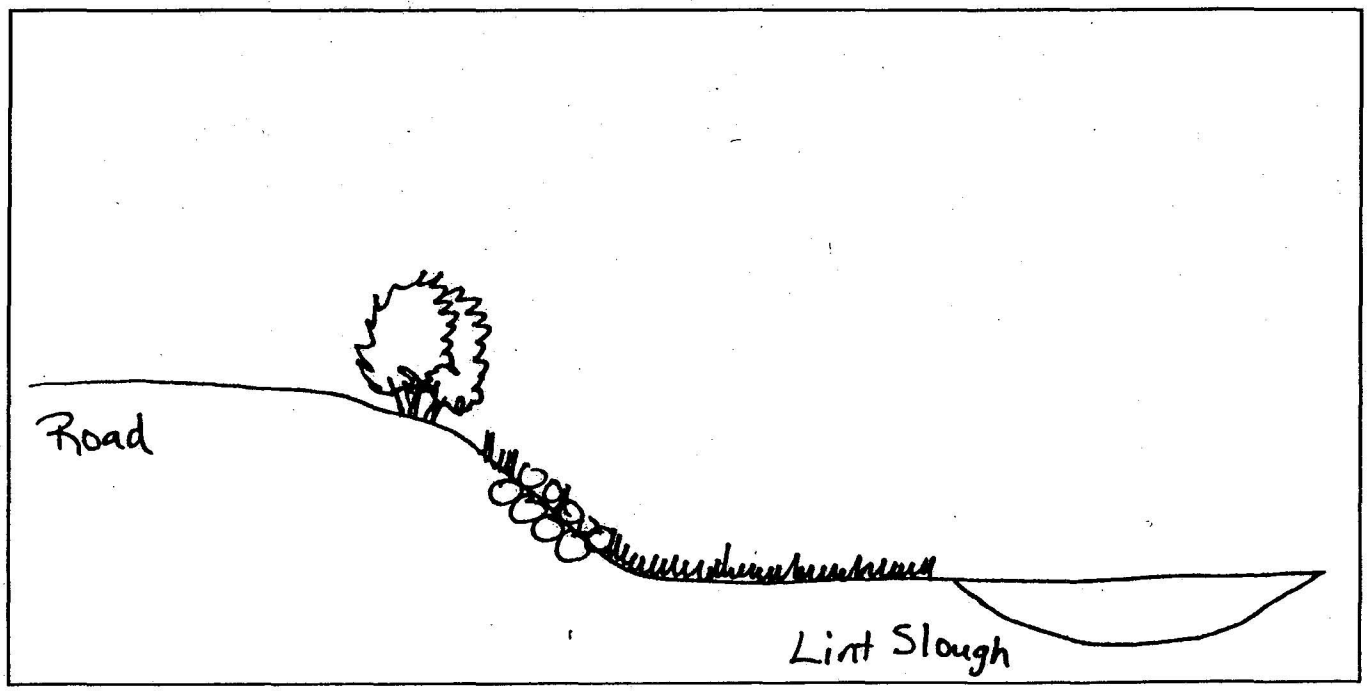
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Area on west side of Lint Slough, north and south of tide gate. Disturbed by roads, rip-rap slopes, water treatment facility.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 L**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 1 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 10 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 L**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 L**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 L**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 1 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 L**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 13 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 10/28/98 **Riparian Code:** R-23 R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1400

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Lint Slough

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 200 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 400 | feet |

**LWI Wetland Code:** ALS-12A

**Water present year-round:** Yes ☒ No ☐

**Are salmonids present in the adjacent water resource?** Yes ☒ No ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes ☐ No ☒

**Within FEMA-mapped 100-year floodplain:** Yes ☒ No ☐

**Mapped soil series:** Clatsop silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

**Agriculture:** ☐ **Roads:** ☒
**Commercial/Indus.:** ☐ **Undeveloped:** ☒
**Residential:** ☒ **Forestry:** ☐

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Gaultheria shallon* |
| *Tsuga heterophylla* | *Rubus spectabilis* |
| *Rubus spectabilis* | *Polystichum munitum* |
| *Lonicera involucrata* | *Blechnum spicant* |
| *Sambucus racemosa* | |
| *Rhamnus purshiana* | |
| *Vaccinium ovatum* | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 R**

**Date:** 10/28/98 **Investigators:** PF/JVS

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120 **feet**

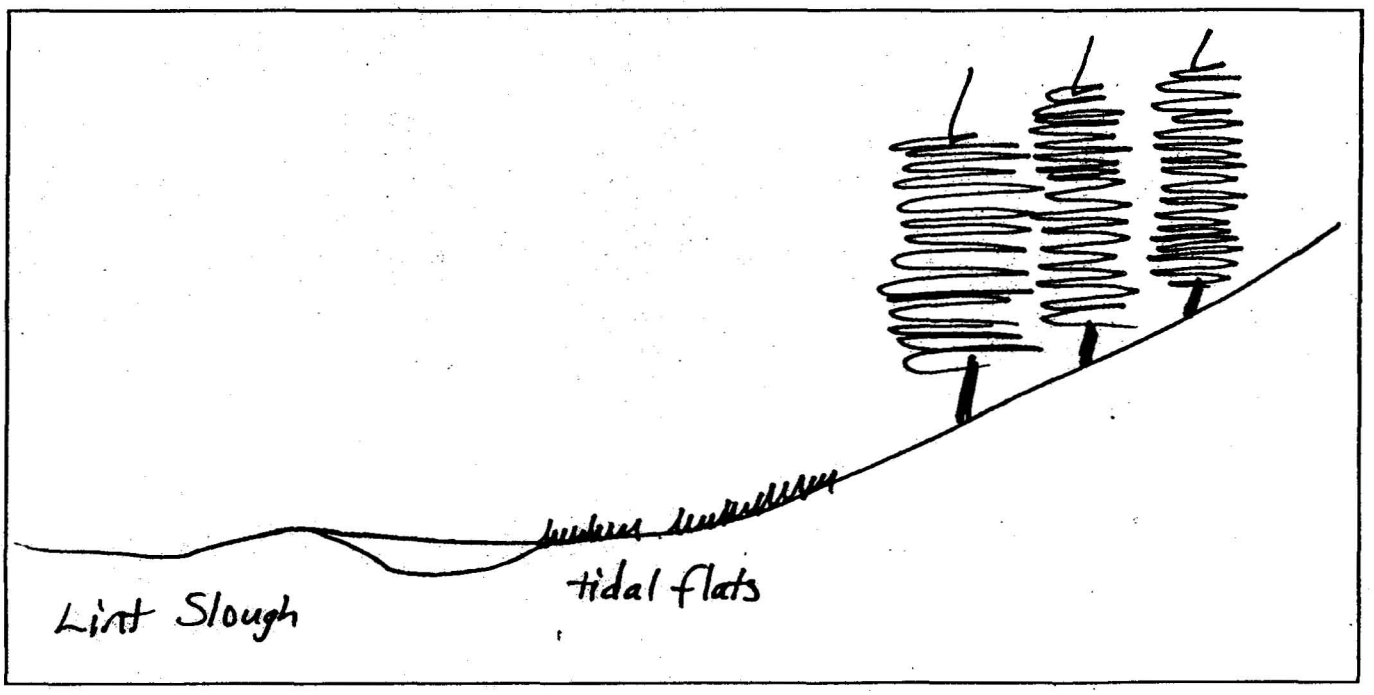
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Steep forested hillside adjacent to east side of Lint Slough, north and south of tide gate.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 7

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |

**Total Points:** 5

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-23 R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 22 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 10/20/98 **Riparian Code:** R-24 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 600

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Lint Slough

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 10-20 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 400 | feet |

**LWI Wetland Code:** ALS-12A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☒ **No** ☐

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

**Agriculture:** ☐ **Roads:** ☒
**Commercial/Indus.:** ☒ **Undeveloped:** ☐
**Residential:** ☐ **Forestry:** ☐

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Cytisus scoparius* | *Daucus carota* |
| | *Festuca arundinacea* |
| | *Rubus ursinus* |
| | *Rubus discolor* |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☒ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-24 L/R**

**Date:** 10/20/98 **Investigators:** PF/JVS

**Dominant tree species:** *Alnus rubra* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 65/ 5(L) 20(R) **feet**

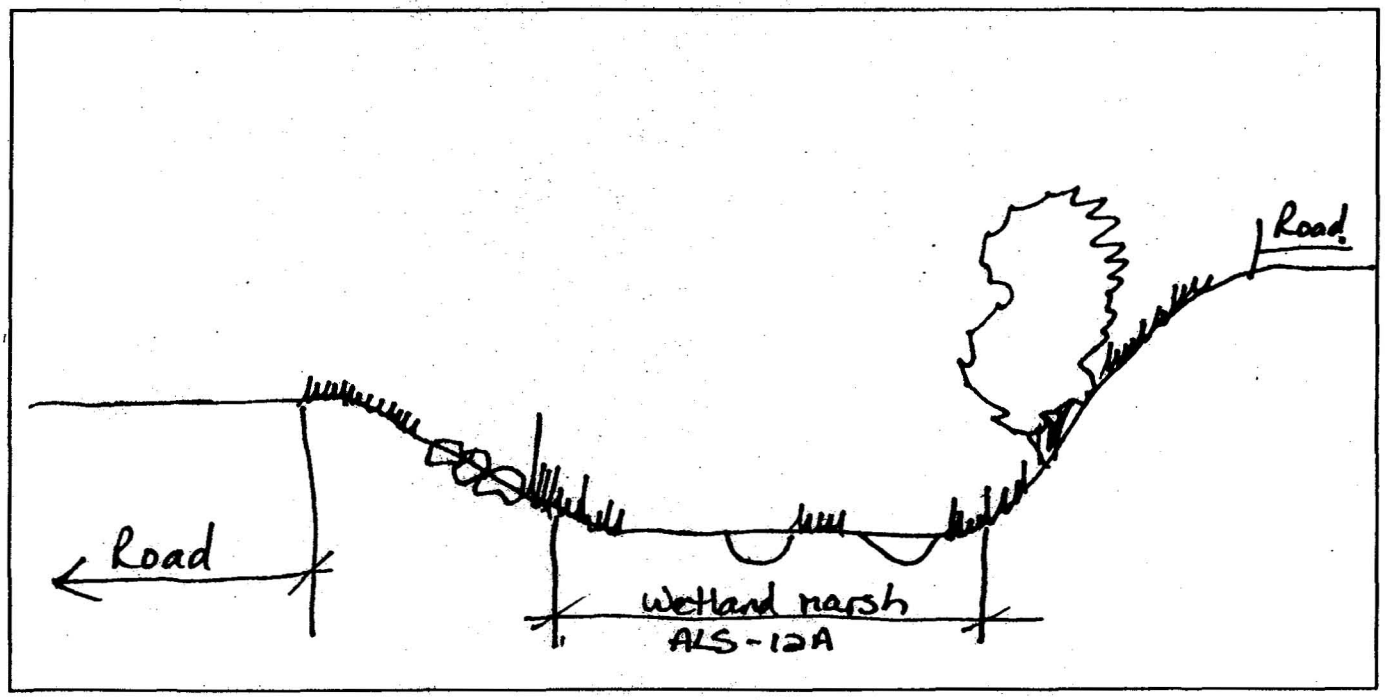
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Lint Slough, downstream of tide gate. Shoreline/riparian area defined by rip-rap banks, roads, and development south of Hwy 34.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-24 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 11

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-24 L/R**

## FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-24 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-24 L/R**

# WILDLIFE HABITAT

| | | | Score |
|---|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | | |
| a. More than 2 layers | ..... | 3 pts | |
| b. 2 layers | ..... | 2 pts | 1 |
| c. 1 layer, or unvegetated | ..... | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | ..... | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | ..... | 2 pts | 2 |
| c. Bare ground | ..... | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | | |
| a. Yes | ..... | 2 pts | 1 |
| b. No | ..... | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | | |
| a. Yes | ..... | 3 pts | 1 |
| b. No | ..... | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | | |
| a. Greater than 40% | ..... | 3 pts | |
| b. Between 10% and 40% | ..... | 2 pts | 2 |
| c. Less than 10% | ..... | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-24 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 15 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 10/20/98 **Riparian Code:** R-25 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1800

**Investigators:** PF/JVS **Hydrologic Basin:** Alsea Bay/Lint Slough

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| | **Stream/River:** | x | **Width:** 400 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 5-20 | feet |

**LWI Wetland Code:** ALS-12A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☒ **No** ☐

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☒ | **Undeveloped:** | ☐ |
| **Residential:** | ☐ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Cytisus scoparius* | *Daucus carota* |
| | *Festuca arundinacea* |
| | *Rubus ursinus* |
| | *Rubus discolor* |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☒ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-25 L/R**

**Date:** 10/20/98 **Investigators:** PF/JVS

**Dominant tree species:** *Alnus rubra* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 65/10-20(L) 10-30(R) **feet**

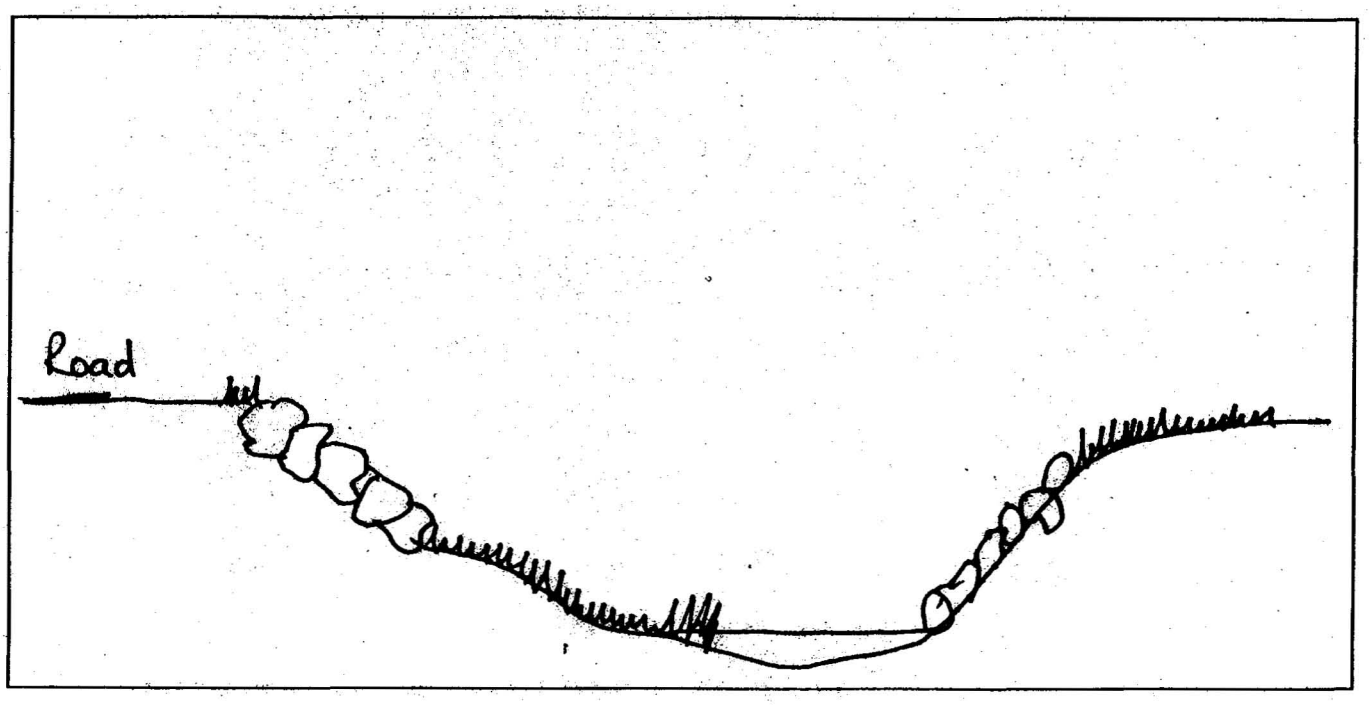
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Lint Slough, below tide gate. Shoreline/riparian area defined by rip-rap banks, roads and development north of Hwy 34.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-25 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 11 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-25 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-25 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 4 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-25 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 2 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-25 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 14 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 10/20/98 **Riparian Code:** R-26 L

**On-site:** ☐ **Off-Site:** ☒ **Reach Length:** 3200'

**Investigators:** JVS/PF **Hydrologic Basin:** Alsea Bay

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** >700 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 20-50 | feet |

**LWI Wetland Code:** ALS-11A, ALS-11B, ALS-5

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☒ **No** ☐

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Tidal Marsh

**Adjacent Land Uses?** (Check as many as needed)

| | | | |
|---|---|---|---|
| **Agriculture:** | ☐ | **Roads:** | ☒ |
| **Commercial/Indus.:** | ☒ | **Undeveloped:** | ☐ |
| **Residential:** | ☒ | **Forestry:** | ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Equisetum sp.* |
| *Picea sitchensis* | *Festuca arundinacea* |
| *Rhamnus purshiana* | *Holcus lanatus* |
| | *Ranunculus repens* |
| | *Rubus discolor* |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☒ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☒ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☒ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-26 L**

**Date:** 10/20/98 **Investigators:** JVS/PF

**Dominant tree species:** *Alnus rubra* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 65/20-65 **feet**

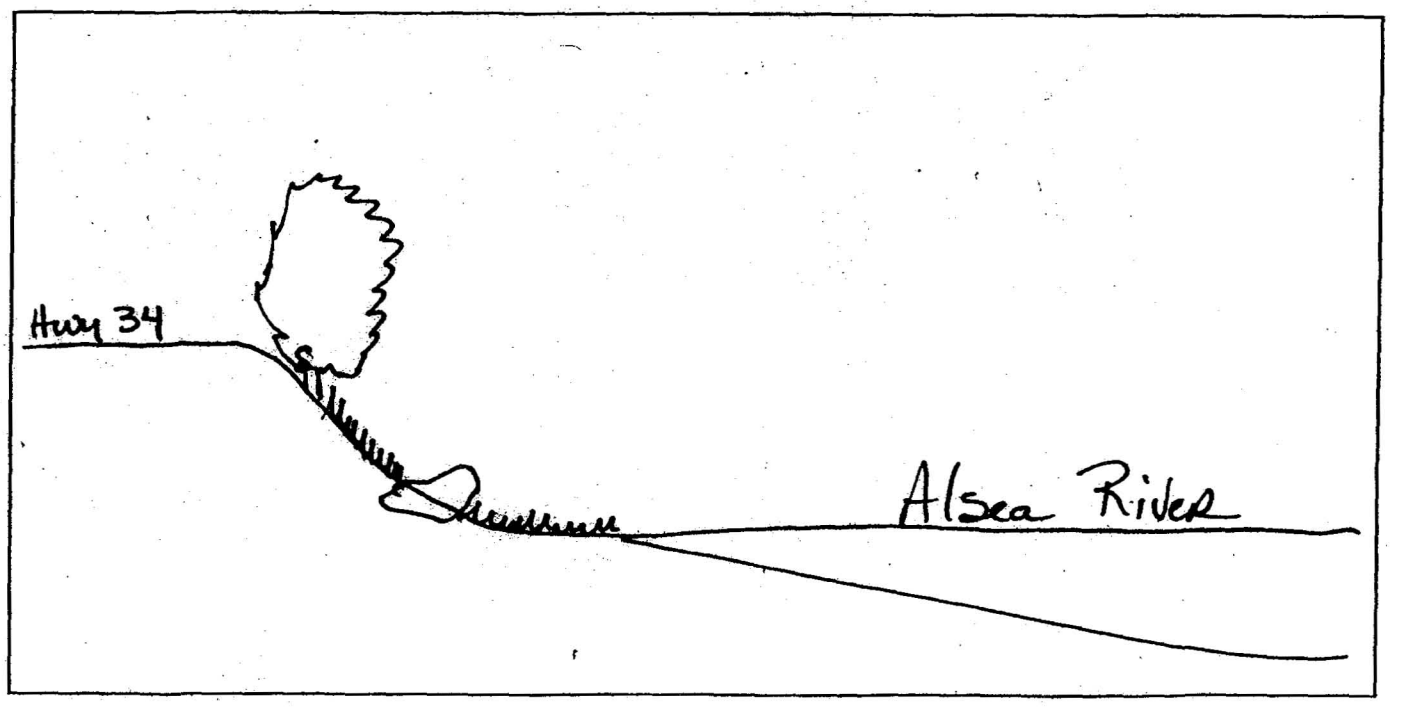
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Area adjacent to Hwy 34, between McKinney Slough and marina at Lint Slough. Narrow riparian fringe with roads and buildings defining edge.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-26 L**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 2 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | **11** |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-26 L**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-26 L**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |

**Total Points:** 6

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-26 L**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 2 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-26 L**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |

**Total Points:** 15

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 10/20/98 **Riparian Code:** R-27 L

**On-site:** ☐ **Off-Site:** ☒ **Reach Length:** 1200

**Investigators:** JVS/PF **Hydrologic Basin:** Alsea Bay/McKinney Slough

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | | **Width:** - | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | x | **Width:** 150-600 | feet |

**LWI Wetland Code:** ALS-10B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☒ **No** ☐

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Knappa silt loam

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☒ | **Undeveloped:** ☐ |
| **Residential:** ☒ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Hedera helix* |
| *Tsuga heterophylla* | *Polystichum munitum* |
| *Gaultheria shallon* | |
| *Rubus spectabilis* | |
| *Vaccinium ovatum* | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☒ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-27 L**

**Date:** 10/20/98 **Investigators:** JVS/PF

**Dominant tree species:** *Alnus rubra* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 65/30-65 **feet**

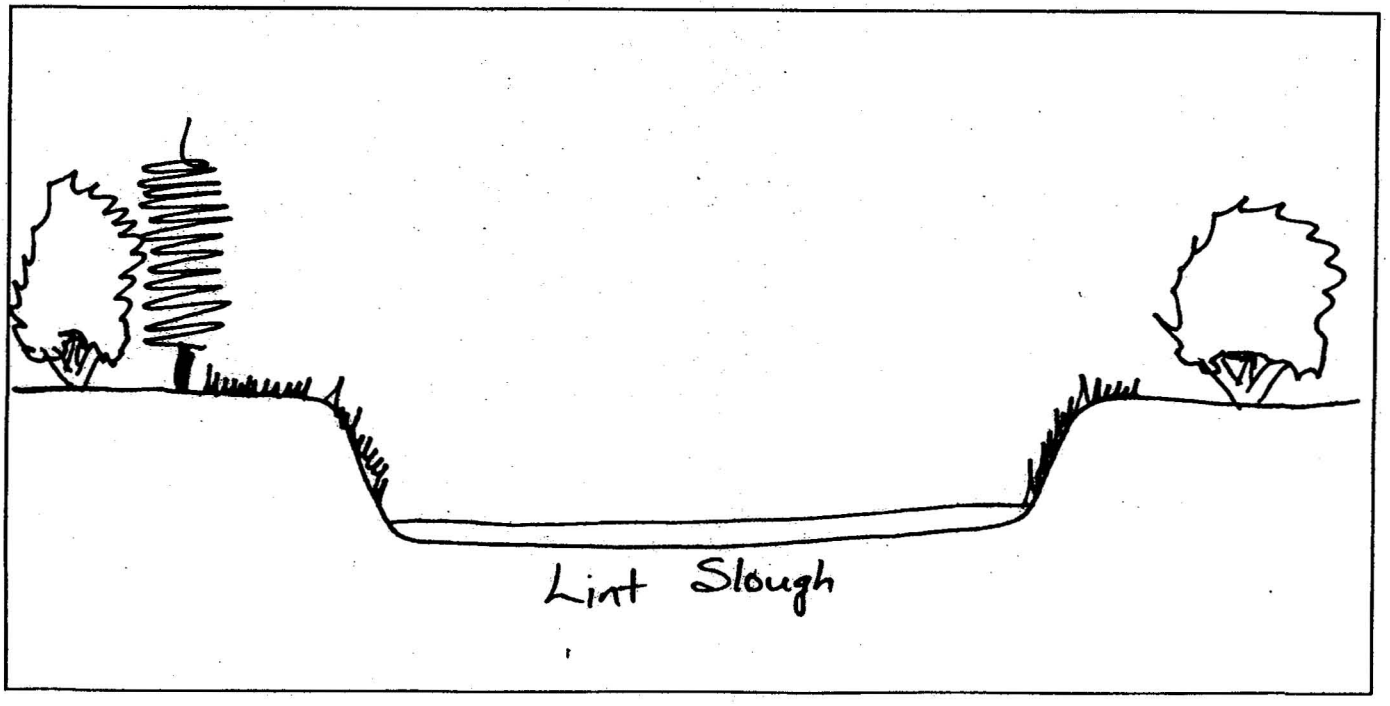
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** McKinney Slough-north of Hwy 34 bordered by residential south of Hwy 34 residential to right, some industrial to left.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-27 L**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 14

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-27 L**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-27 L**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |

**Total Points:** 5

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-27 L**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

***Questions continued on next page***

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-27 L**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 2 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 16 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-28 L

**On-site:** ☐ **Off-Site:** ☒ **Reach Length:** 250'

**Investigators:** JF/PF **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| Water Resource: | | | Width: | |
|---|---|---|---|---|
| | Stream/River: | x | 10-15 | feet |
| | Lake/Pond: | | | feet |
| | Wetland: | x | 50-100 | feet |

**LWI Wetland Code:** ALS-10B

**Water present year-round:** Yes ☒ No ☐

**Are salmonids present in the adjacent water resource?** Yes ☒ No ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** Yes ☐ No ☒

**Within FEMA-mapped 100-year floodplain:** Yes ☒ No ☐

**Mapped soil series:** Lint silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ |
| **Commercial/Indus.:** ☒ | **Undeveloped:** ☐ |
| **Residential:** ☐ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| | *Rubus discolor* |
| | *Agrostis tenuis* |
| | *Festuca arundinacea* |
| | |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☒ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☐ 10% - 25% ☐ >25% ☒

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☐ Herbaceous vegetation ☐ Bare ground ☒

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☐ 10% - 40% ☐ <10% ☒

**Degree of development or human caused disturbance.** (Question 19)

<25% ☐ 25% - 75% ☐ >75% ☒

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 L**

**Date:** 3/9/99 **Investigators:** JF/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/10 **feet**

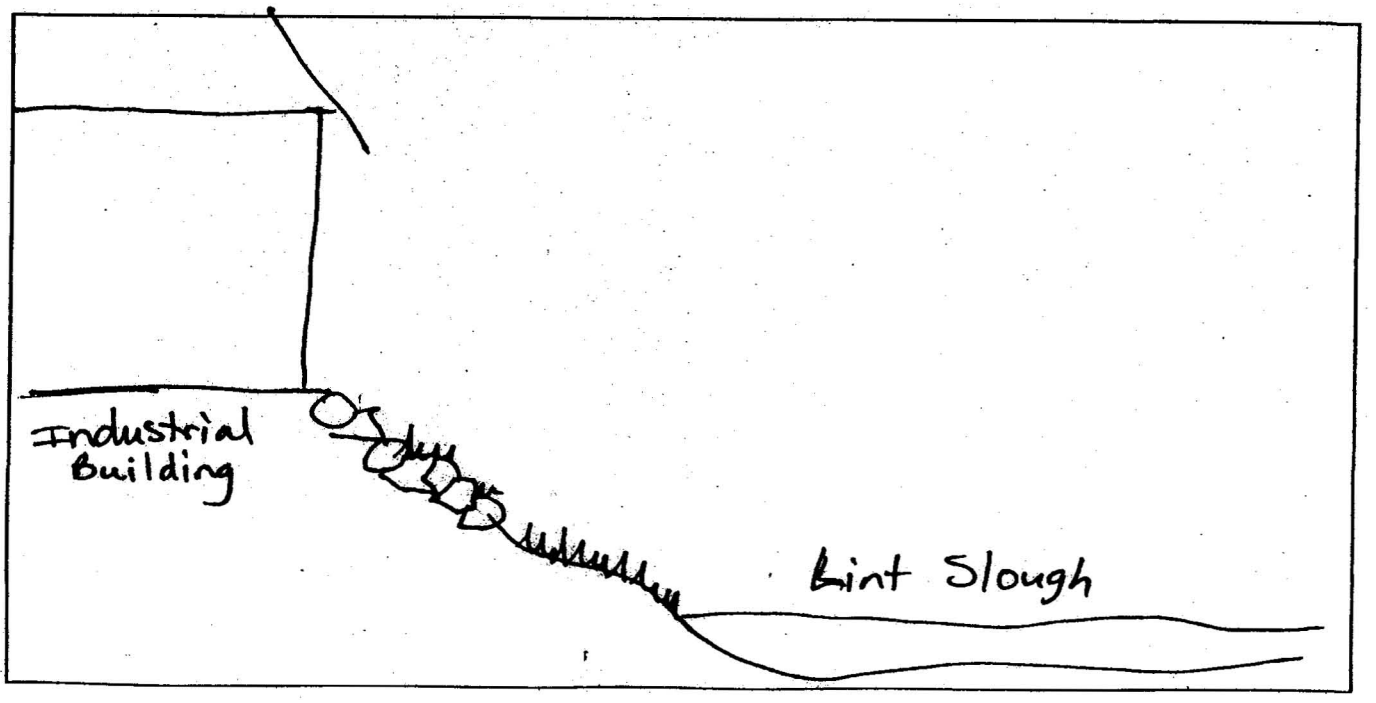
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☐ **Reference site** ☒ **Code** R-28 R

**Comments:** Industrial site adjacent to west (left) side of Lint Slough. Old mill operation. Buildings immediately at top of bank.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 L**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 3 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 1 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 1 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | **9** |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **MEDIUM**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 L**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 3

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 L**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 1 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |

**Total Points:** 3

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** LOW

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 L**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 1 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 1 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 1 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 L**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 1 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 12 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** LOW

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-28 R

**On-site:** ☐ **Off-Site:** ☒ **Reach Length:** 1000'

**Investigators:** JF/PF **Hydrologic Basin:** Alsea Bay/McKinney Slough

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | x | **Width:** | 10-15 | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 50-100 | feet |

**LWI Wetland Code:** ALS-10B

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☒ **No** ☐

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Lint silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

**Agriculture:** ☐ **Roads:** ☐
**Commercial/Indus.:** ☐ **Undeveloped:** ☒
**Residential:** ☒ **Forestry:** ☒

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Polystichum munitum* |
| *Alnus rubra* | *Blechnum spicant* |
| *Rubus spectabilis* | *Gaultheria shallon* |
| *Vaccinium ovatum* | |
| *Tsuga heterophylla* | |
| *Rubus discolor* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 R**

**Date:** 3/9/99 **Investigators:** JF/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/40-100 **feet**

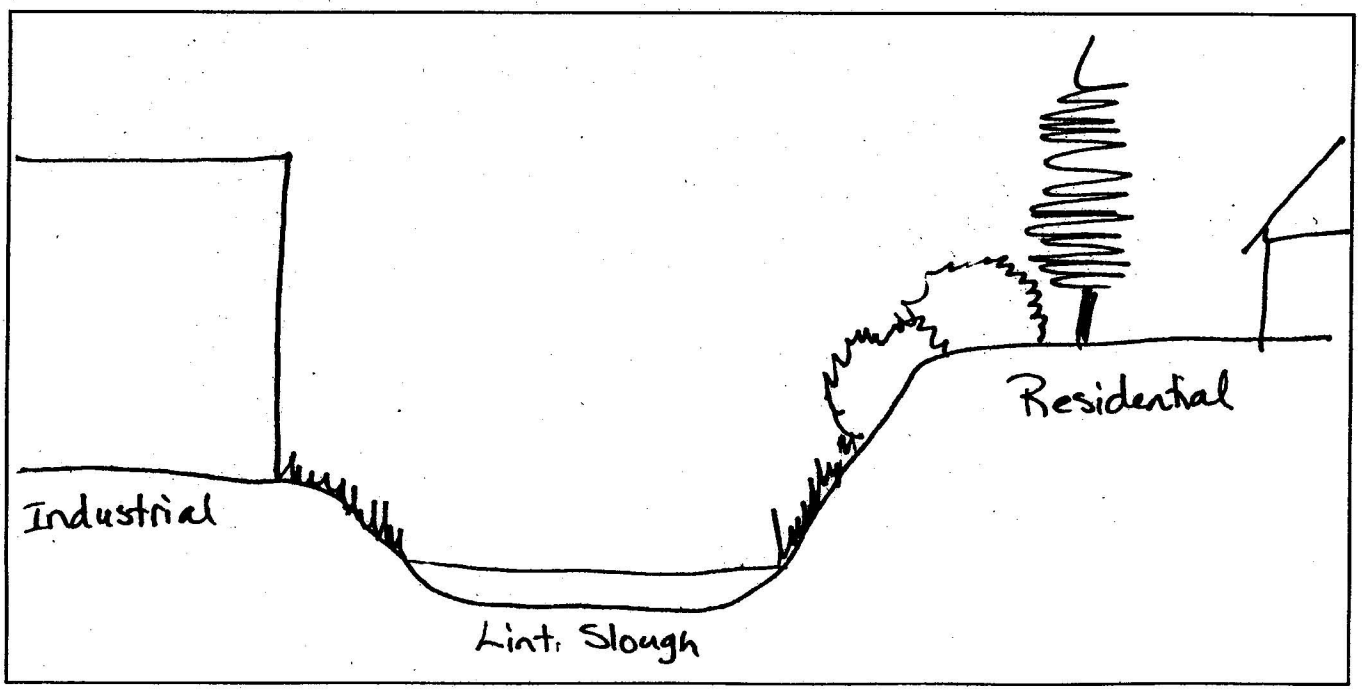
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Industrial area on left side. Residential area on right.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 R**

# THERMAL REGULATION

| | | | Score |
|---|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | | |
| a. Yes | 3 pts | | 1 |
| b. No | 1 pt | | |
| **10. What is the dominant vegetation layer in the riparian area?** | | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | | 3 |
| c. Bare ground | 1 pt | | |
| **11. Does woody vegetation hang over the edge of the water?** | | | |
| a. Yes | 2 pts | | 1 |
| b. No | 1 pts | | |

**Total Points:** 5

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

***Questions continued on next page***

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-28 R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 22 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 3/9/99 **Riparian Code:** R-29 L/R

**On-site:** ☐ **Off-Site:** ☒ **Reach Length:** 1400

**Investigators:** JF/PF **Hydrologic Basin:** Alsea Bay/McKinney Slough

### WATER RESOURCE INFORMATION

**Water Resource:** **Stream/River:** ☐ **Width:** 50-100 feet
**Lake/Pond:** ☐ **Width:** feet
**Wetland:** x **Width:** feet

**LWI Wetland Code:** ALS-10A

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☒ **No** ☐

**Mapped soil series:** Lint silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

**Agriculture:** ☐ **Roads:** ☐
**Commercial/Indus.:** ☐ **Undeveloped:** ☒
**Residential:** ☒ **Forestry:** ☒

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Picea sitchensis* | *Polystichum munitum* |
| *Alnus rubra* | *Blechnum spicant* |
| *Rubus spectabilis* | *Gaultheria shallon* |
| *Vaccinium ovatum* | |
| *Tsuga heterophylla* | |
| *Rubus discolor* | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☐ >5:1 (20%) ☒

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☐ No ☒

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-29 L/R**

**Date:** 3/9/99 **Investigators:** JF/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/20-120(R) 120(L) **feet**

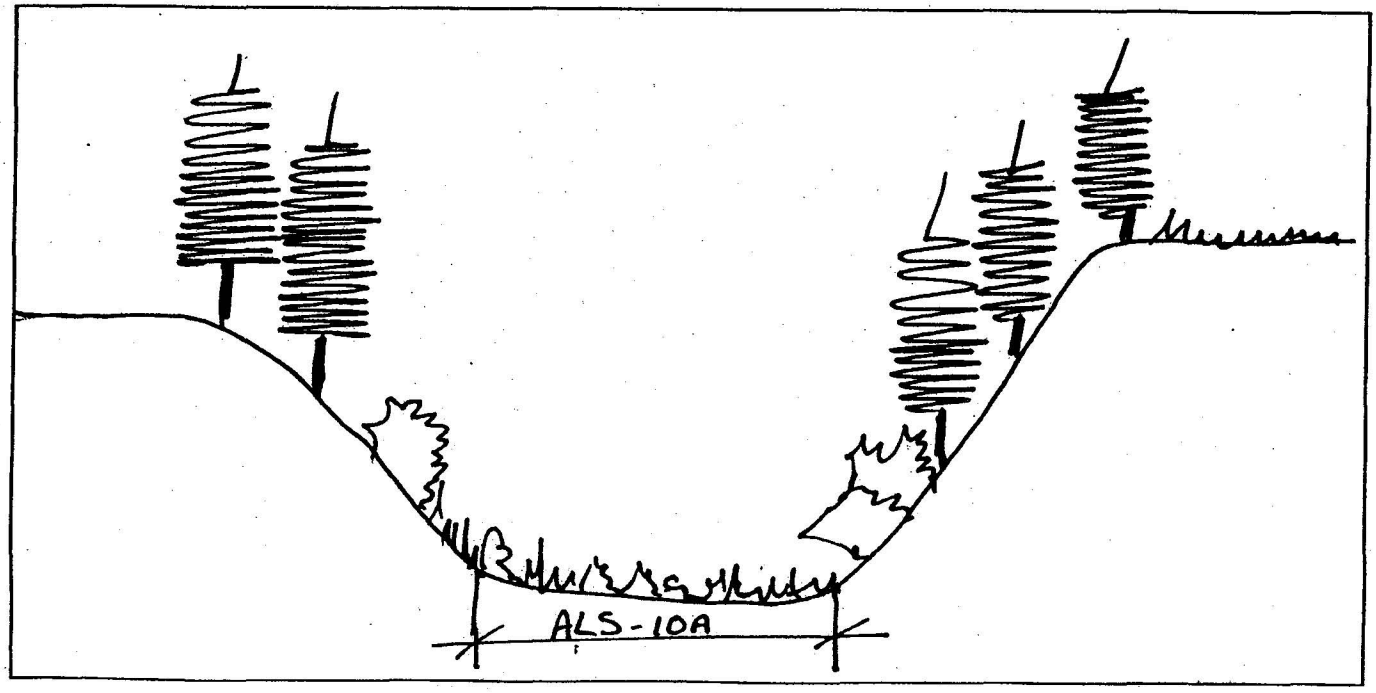
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Upper end of McKinney Slough at Lucy Lane. Some disturbance on east side due to development of subdivision downstream.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-29 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 1 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |
| **Total Points:** | | 12 |

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** **HIGH**

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-29 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-29 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pts | |
| **Total Points:** | | 5 |

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-29 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 1 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-29 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | **20** |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 2/18/99 **Riparian Code:** R-30 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 800'

**Investigators:** JVS/PF **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| Water Resource: | | | | |
|---|---|---|---|---|
| **Stream/River:** | | **Width:** | - | feet |
| **Lake/Pond:** | | **Width:** | | feet |
| **Wetland:** | x | **Width:** | 10-50 | feet |

**LWI Wetland Code:** ALS-9

**Water present year-round:** **Yes** ☐ **No** ☒

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Fendall gravelly clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | |
|---|---|
| **Agriculture:** ☐ | **Roads:** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ |
| **Residential:** ☒ | **Forestry:** ☐ |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Carex obnupta* |
| *Picea sitchensis* | |
| *Tsuga heterophylla* | |
| *Rubus spectabilis* | |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☐ No ☒

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☐ No ☒

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☐ No ☒

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-30 L/R**

**Date:** 2/18/99 **Investigators:** JVS/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/120 L/R **feet**

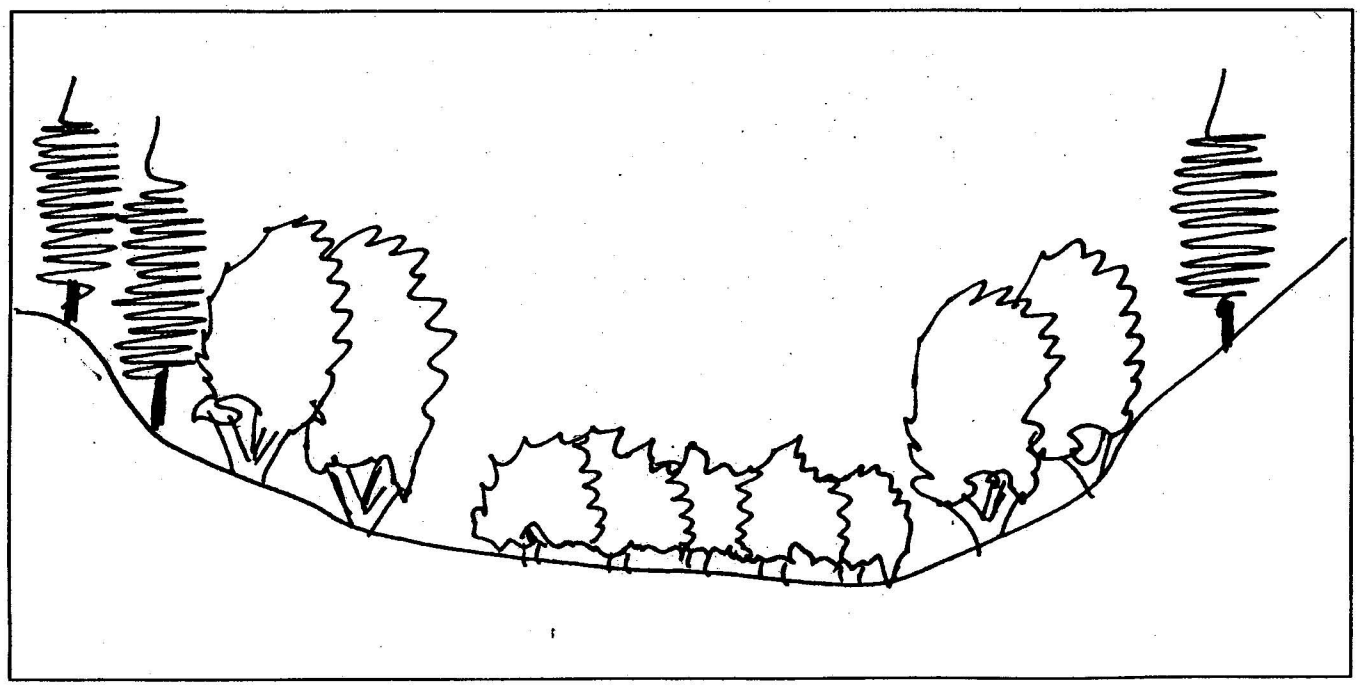
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** North of Alsea River, south of Bayview Road. Forested drainage drains south to river.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-30 L/R**

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 13

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-30 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 3 |
| b. Yes | 1 pts | |

**Total Points:** 5

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-30 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 6

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-30 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 3 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-30 L/R**

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 1 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 17 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Characterization Form

## Waldport Riparian Inventory

### GENERAL INFORMATION

**Date:** 6/11/99 **Riparian Code:** R-31 L/R

**On-site:** ☒ **Off-Site:** ☐ **Reach Length:** 1000' L/R

**Investigators:** JVS/PF **Hydrologic Basin:** Alsea River

### WATER RESOURCE INFORMATION

| | | | | |
|---|---|---|---|---|
| **Water Resource:** | **Stream/River:** | x | **Width:** 5 | feet |
| | **Lake/Pond:** | | **Width:** | feet |
| | **Wetland:** | | **Width:** | feet |

**LWI Wetland Code:**

**Water present year-round:** **Yes** ☒ **No** ☐

**Are salmonids present in the adjacent water resource?** **Yes** ☐ **No** ☒

**Is the water resource listed for temperature on DEQ's 303(d) list:** **Yes** ☐ **No** ☒

**Within FEMA-mapped 100-year floodplain:** **Yes** ☐ **No** ☒

**Mapped soil series:** Lint silty clay loam

**Adjacent Land Uses?** (Check as many as needed)

| | | |
|---|---|---|
| **Agriculture:** ☐ | **Roads:** ☐ | **Sewage** ☒ |
| **Commercial/Indus.:** ☐ | **Undeveloped:** ☒ | **Treatment Facility** |
| **Residential:** ☐ | **Forestry:** ☒ | |

| **Woody vegetation** (trees, shrubs, vines >1 meter) | **Herbaceous vegetation** (include trees, shrubs, vines <1 meter) |
|---|---|
| *Alnus rubra* | *Equisetum arvense* |
| *Cytisus scoparius* | *Lysichitum americanum* |
| *Rubus spectabilis* | |
| | |
| | |
| | |
| | |

1 meter = 3.2 feet

**Average slope in the riparian area:** (Question 1)

<10:1 (10%) ☐ Between 10:1 (10%) and 5:1 (20%) ☒ >5:1 (20%) ☐

**Extent of impervious surface within the riparian area.** (Question 4)

<10% ☒ 10% - 25% ☐ >25% ☐

**Is the reach constricted by man-made features?** (Question 8)

Yes ☒ No ☐

**Does the orientation of the riparian area allow for shading of the water resource at midday in summer?** (Question 9)

Yes ☒ No ☐

**Dominant vegetation layer within riparian area?** (Question 10)

Woody vegetation ☒ Herbaceous vegetation ☐ Bare ground ☐

**Does woody vegetation hang over the edge of the water?** (Questions 11 & 14)

Yes ☒ No ☐

**Large woody debris in riparian area?** (Question 15)

Yes ☒ No ☐

**Percent of water resource bordered by vegetated riparian area at least 30 feet wide?** (Question 16)

>40% ☒ 10% - 40% ☐ <10% ☐

**Degree of development or human caused disturbance.** (Question 19)

<25% ☒ 25% - 75% ☐ >75% ☐

# Riparian Width Determination

## Waldport Riparian Inventory

RIPARIAN CODE

**R-31 L/R**

**Date:** 6/11/99 **Investigators:** JVS/PF

**Dominant tree species:** *Picea sitchensis* (see other side for list of species)

**Potential tree height (PTH)/Width of riparian area :** 120/20-120(L) 120(R) **feet**

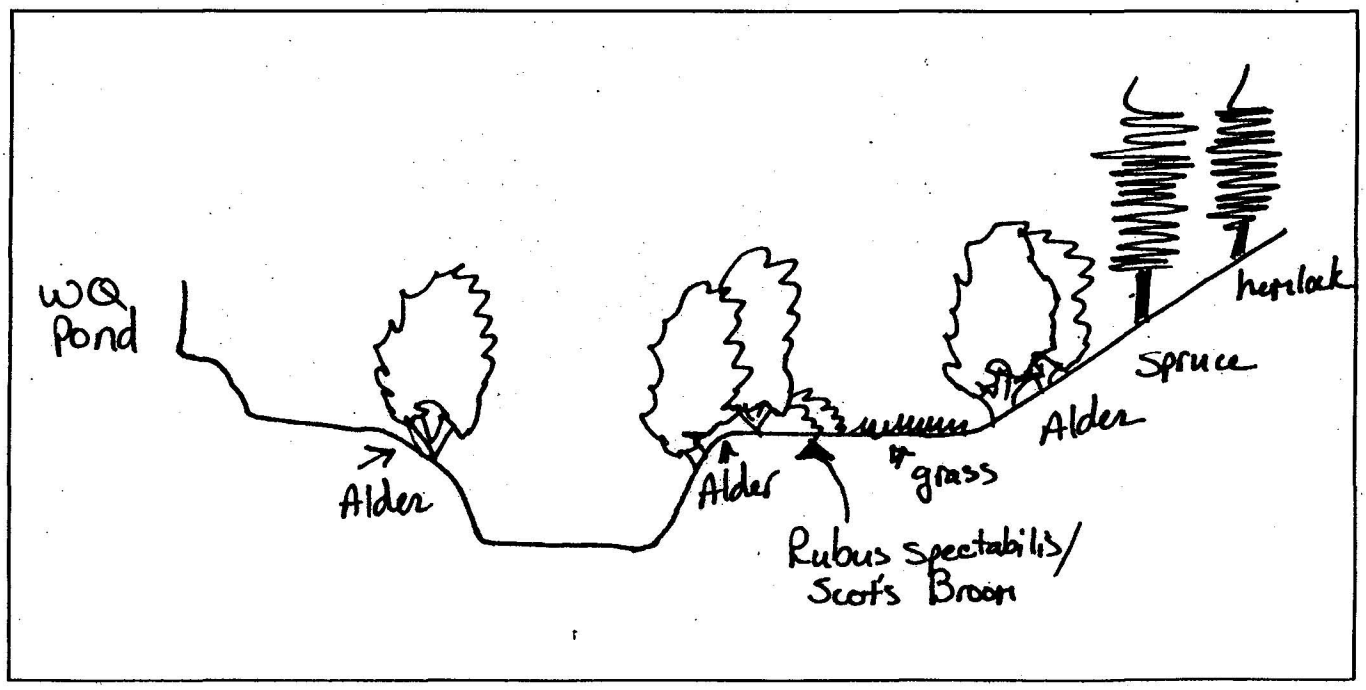
(Width measured horizontally from edge of water resource)

**PTH determined by:**

**On-site vegetation** ☒ **Reference site** ☐ **Code** _____

**Comments:** Alder have more of a direct effect on the stream, but Sitka likely have historical and more long-term effect.

**Typical Cross Section:**



# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-31 L/R

# WATER QUALITY

| | | Score |
|---|---|---|
| **1. What is the average slope in the riparian area?** | | |
| a. Less than 10:1 (10%) | 3 pts | |
| b. Between 10:1 (10%) and 5:1 (20%) | 2 pts | 2 |
| c. Greater than 5:1 (20%) | 1 pt | |
| **2. What is the dominant vegetation cover in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 2 |
| c. Bare ground | 1 pt | |
| **4. What is the extent of impervious surfaces within the riparian area?** | | |
| a. Less than 10% | 3 pts | |
| b. Between 10% and 25% | 2 pts | 3 |
| c. Greater than 25% | 1 pt | |
| **5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.** | | |
| a. Low, slight, moderate | 2 pts | 2 |
| b. High, severe, very high | 1 pts | |

**Total Points:** 12

**Function:** **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-31 L/R**

# FLOOD MANAGEMENT

| | | Score |
|---|---|---|
| **6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No or no flood prone area present | 1 pt | |
| **8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?** | | |
| a. No | 3 pts | 1 |
| b. Yes | 1 pts | |

**Total Points:** 7

**Function:** **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

**FUNCTION IS:** MEDIUM

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-31 L/R**

# THERMAL REGULATION

| | | Score |
|---|---|---|
| **9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **10. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **11. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pts | |

**Total Points:** 8

**Function:** **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

**FUNCTION IS:** HIGH

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

**R-31 L/R**

# WILDLIFE HABITAT

| | | Score |
|---|---|---|
| **12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?** | | |
| a. More than 2 layers | 3 pts | |
| b. 2 layers | 2 pts | 2 |
| c. 1 layer, or unvegetated | 1 pt | |
| **13. What is the dominant vegetation layer in the riparian area?** | | |
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | 3 pts | |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | 2 pts | 3 |
| c. Bare ground | 1 pt | |
| **14. Does woody vegetation hang over the edge of the water?** | | |
| a. Yes | 2 pts | 2 |
| b. No | 1 pt | |
| **15. Is large woody debris present within the riparian area?** | | |
| a. Yes | 3 pts | 3 |
| b. No | 1 pt | |
| **16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?** | | |
| a. Greater than 40% | 3 pts | |
| b. Between 10% and 40% | 2 pts | 3 |
| c. Less than 10% | 1 pt | |

*Questions continued on next page*

# Riparian Functional Assessment Answer Sheet

## Waldport Riparian Inventory

RIPARIAN CODE

R-31 L/R

## WILDLIFE HABITAT (continued)

| | | Score |
|---|---|---|
| **17. Is surface water present throughout the year?** | | |
| a. Yes | 3 pts | |
| b. No | 1 pt | 3 |
| **18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?** | | |
| a. Yes | 3 pts | 1 |
| b. No | 1 pt | |
| **19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?** | | |
| a. Less than 25% | 3 pts | |
| b. Between 25% and 75% | 2 pts | 3 |
| c. Greater than 75% | 1 pt | |
| **Total Points:** | | 20 |

**Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)**

**FUNCTION IS:** HIGH

# Appendix F
# Plant List

## APPENDIX F

**Plant Species observed within the Urban Growth Boundary of the City of Waldport, Oregon.**

| *Scientific Name* | *Common Name* | *R9-Ind.* |
|---|---|---|
| **TREES** | | |
| *Alnus rubra* | red alder | FAC |
| *Picea sitchensis* | Sitka spruce | FAC |
| *Pinus contorta* | shore pine | FAC |
| *Thuja plicata* | western red cedar | FAC |
| *Tsuga heterophylla* | western hemlock | FACU- |
| **SHRUBS** | | |
| *Alnus rubra* | red alder | FAC |
| *Cytisus scoparius* | Scot's broom | UPL |
| *Gaultheria shallon* | salal | FACU |
| *Hedera helix* | English ivy | UPL |
| *Ilex aquifolium* | English holly | UPL |
| *Ledum glandulosum* | smooth Labrador tea | FACW+ |
| *Lonicera involucrata* | four-line honeysuckle | FAC |
| *Myrica californica* | Pacific bayberry | FACW |
| *Myrica sp.* | unidentified bayberry | OBL-FACW |
| *Pinus contorta* | shore pine | FAC |
| *Pyrus fusca* | western crabapple | FACW |
| *Rhamnus purshiana* | cascara buckthorn | FAC- |
| *Rhododendron macrophyllum* | Pacific rhododendron | UPL |
| *Rhododendron sp.* | unidentified rhododendron | UPL |
| *Rubus discolor* | Himalayan blackberry | FACU |
| *Rubus parviflorus* | western thimbleberry | FAC- |
| *Rubus spectabilis* | salmonberry | FAC+ |
| *Rubus ursinus* | California blackberry | FACU |
| *Salix hookeriana* | hooker willow | FACW- |
| *Sambucus racemosa* | red elderberry | FACU |
| *Spiraea douglasii* | Douglas' spiraea | FACW |
| *Vaccinium ovatum* | evergreen huckleberry | UPL |
| *Vaccinium parvifolium* | red huckleberry | UPL |
| **HERBS** | | |
| *Agrostis stolonifera* | creeping bentgrass | FAC |
| *Agrostis tenuis* | colonial bentgrass | FAC |
| *Angelica lucida* | seawatch angelica | FAC+ |
| *Anthoxanthum odoratum* | sweet vernal grass | FACU |
| *Aster sp.* | unidentified aster | OBL-FACW- |

| *Scientific Name* | *Common Name* | *R9-Ind.* |
|---|---|---|
| *Athyrium filix-femina* | subarctic lady fern | FAC |
| *Atriplex sp.* | unidentified saltbush | FACW-UPL |
| *Blechnum spicant* | deer fern | FAC+ |
| *Bromus sp.* | unidentified brome | FACU |
| *Cardamine angulata* | seaside bitter-cress | FACW |
| *Carex lyngbyei* | Lyngby's sedge | OBL |
| *Carex obnupta* | slough sedge | OBL |
| *Dactylis glomerata* | orchard grass | FACU |
| *Deschampsia cespitosa* | tufted hairgrass | FACW |
| *Epilobium sp.* | willow herb | OBL-UPL |
| *Equisetum arvense* | field horsetail | FAC |
| *Festuca arundinacea* | Kentucky fescue | FAC- |
| *Glecoma hederacea* | ground ivy | FACU+ |
| *Grindelia integrifolia* | Willamette Valley grindelia | FACW |
| *Holcus lanatus* | common velvet grass | FAC |
| *Hypochaeris radicata* | hairy cats-ear | UPL |
| *Juncus acuminatus* | taper tip rush | OBL |
| *Juncus balticus* | Baltic rush | FACW+ |
| *Juncus bufonius* | toad rush | FACW |
| *Juncus effusus* | soft rush | FACW |
| *Juncus ensifolius* | three-stamen rush | FACW |
| *Juncus falcatus* | sickle leaf rush | FACW- |
| *Juncus marginatus* | grass leaf rush | NOL |
| *Juncus patens* | spreading rush | FACW |
| *Lotus corniculatus* | birds-foot trefoil | FAC |
| *Lysichitum americanum* | yellow skunk-cabbage | OBL |
| *Oenanthe sarmentosa* | water-parsley | OBL |
| *Plantago major* | broadleaf plantain | FACU+ |
| *Poa annua* | annual bluegrass | FAC |
| *Polystichum munitum* | sword fern | FACU |
| *Potentilla anserina* | Pacific silverweed | OBL |
| *Prunella vulgaris* | heal-all | FACU+ |
| *Pteridium aquilinum* | bracken fern | FACU |
| *Ranunculus repens* | creeping buttercup | FACW |
| *Salicornia virginica* | pickle weed | OBL |
| *Scirpus microcarpus* | small-fruit bulrush | OBL |
| *Sisyrinchium californicum* | golden blue eye grass | FACW+ |
| *Trifolium pratense* | red clover | FAC |
| *Triglochin sp.* | unidentified arrowgrass | OBL |

# Appendix G
# Significant Riparian Area Determination Sheets

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

| | | | |
|---|---|---|---|
| **Project Name:** | Waldport LWI | **Wetland:** | **ALS-1A** |
| **Project Location:** | Lincoln County | **Wetland Type(s):** | PFO, R3 |

| | | | |
|---|---|---|---|
| **Date:** | 4/26/99 | **Approx. Area (acres):** | 0.23 |
| **Onsite Assessment?:** | No | **Investigator(s):** | JVS, PF |
| **Wetland Location:** | South of Pacific Drive, Red River tributary | | |

**Function and Condition Assessment Answers:**

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

**Results:**

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

**Function and Condition Assessment Answers:**

| Enhancement Potential | | Education | | Recreation | | Aesthetic Quality | |
|---|---|---|---|---|---|---|---|
| **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** |
| Q-1 | **A** | Q-1 | **C** | Q-1 | **C** | Q-1 | **B** |
| Q-2 | **A** | Q-2 | **B** | Q-2 | **C** | Q-2 | **C** |
| Q-3 | **A** | Q-3 | **B** | Q-3 | **C** | Q-3 | **A** |
| Q-4 | **B** | Q-4 | **B** | Q-4 | **B** | Q-4 | **A** |
| Q-5B | **A** | Q-5 | **C** | Q-5 | **B** | Q-5 | **A** |
| Q-6 | **B** | Q-6 | **B** | Q-6 | **B** | Q-6 | **A** |

**Results:**

| | |
|---|---|
| **Enhancement Potential** | Wetland has high enhancement potential |
| **Education** | Wetland site is not appropriate for educational use |
| **Recreation** | Wetland is not appropriate or does not provide rec. opportunities |
| **Aesthetic Quality** | Wetland is considered to be moderately pleasing |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R3 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R4 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R5 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | | No |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R6 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | | No |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R7 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | | No |
| 4 | Does the riparian area have a high wildlife habitat function? | | No |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | | **NO** |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R8 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R9 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R10 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R14 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| 1 Does the riparian area have a high water quality function? | Yes | |
| 2 Does the riparian area have a high flood management function? | | No |
| 3 Does the riparian area have a high thermal regulation function? | Yes | |
| 4 Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 Does the riparian corridor contain a rare plant community? | | No |
| 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R15 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| 1 Does the riparian area have a high water quality function? | | No |
| 2 Does the riparian area have a high flood management function? | | No |
| 3 Does the riparian area have a high thermal regulation function? | | No |
| 4 Does the riparian area have a high wildlife habitat function? | | No |
| 5 Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 Does the riparian corridor contain a rare plant community? | | No |
| 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | | **NO** |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R16 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| **1** | Does the riparian area have a high water quality function? | Yes | |
| **2** | Does the riparian area have a high flood management function? | | No |
| **3** | Does the riparian area have a high thermal regulation function? | | No |
| **4** | Does the riparian area have a high wildlife habitat function? | Yes | |
| **5** | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| **6** | Does the riparian corridor contain a rare plant community? | | No |
| **7** | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| | **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R17 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| **1** | Does the riparian area have a high water quality function? | Yes | |
| **2** | Does the riparian area have a high flood management function? | | No |
| **3** | Does the riparian area have a high thermal regulation function? | Yes | |
| **4** | Does the riparian area have a high wildlife habitat function? | Yes | |
| **5** | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| **6** | Does the riparian corridor contain a rare plant community? | | No |
| **7** | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| | **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R18 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | | No |
| 4 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R20 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high flood management function? | | No |
| 3 | Does the riparian area have a high thermal regulation function? | Yes | |
| 4 | Does the riparian area have a high wildlife habitat function? | | No |
| 5 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 6 | Does the riparian corridor contain a rare plant community? | | No |
| 7 | Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

# Goal 5 Significant Riparian Corridor Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 5 | **Riparian Code:** | R29 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | Yes | |
| **2** Does the riparian area have a high flood management function? | | No |
| **3** Does the riparian area have a high thermal regulation function? | | No |
| **4** Does the riparian area have a high wildlife habitat function? | Yes | |
| **5** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| **6** Does the riparian corridor contain a rare plant community? | | No |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | | **Riparian Code:** | |
| **Project Location:** | | | |
| **Date:** | | | |

| ***Goal 5 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | | No |
| **2** Does the riparian area have a high flood management function? | | |
| **3** Does the riparian area have a high thermal regulation function? | | |
| **4** Does the riparian area have a high wildlife habitat function? | | |
| **5** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | |
| **6** Does the riparian corridor contain a rare plant community? | | |
| **7** Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | |
| **SIGNIFICANT RIPARIAN CORRIDOR CRITERIA SATISFIED?** | | |

# Goal 17 Significant Riparian Area Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R11 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high thermal regulation function? | | No |
| 3 | Does the riparian area have a high wildlife habitat function? | | No |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | | **NO** |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R12 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high thermal regulation function? | Yes | |
| 3 | Does the riparian area have a high wildlife habitat function? | | No |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

# Goal 17 Significant Riparian Area Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R13 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | Yes | |
| **2** Does the riparian area have a high thermal regulation function? | Yes | |
| **3** Does the riparian area have a high wildlife habitat function? | | No |
| **4** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| **5** Does the riparian corridor contain a rare plant community? | | No |
| **6** Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R19 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | | No |
| **2** Does the riparian area have a high thermal regulation function? | | No |
| **3** Does the riparian area have a high wildlife habitat function? | | No |
| **4** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| **5** Does the riparian corridor contain a rare plant community? | | No |
| **6** Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | | **NO** |

# Goal 17 Significant Riparian Area Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R21 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high thermal regulation function? | | No |
| 3 | Does the riparian area have a high wildlife habitat function? | | No |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | | **NO** |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R22 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high thermal regulation function? | | No |
| 3 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

# Goal 17 Significant Riparian Area Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R23-R |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | Yes | |
| **2** Does the riparian area have a high thermal regulation function? | | No |
| **3** Does the riparian area have a high wildlife habitat function? | Yes | |
| **4** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| **5** Does the riparian corridor contain a rare plant community? | | No |
| **6** Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R24 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | | No |
| **2** Does the riparian area have a high thermal regulation function? | | No |
| **3** Does the riparian area have a high wildlife habitat function? | | No |
| **4** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| **5** Does the riparian corridor contain a rare plant community? | | No |
| **6** Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

# Goal 17 Significant Riparian Area Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R25 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high thermal regulation function? | | No |
| 3 | Does the riparian area have a high wildlife habitat function? | | No |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R26 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | | No |
| 2 | Does the riparian area have a high thermal regulation function? | | No |
| 3 | Does the riparian area have a high wildlife habitat function? | | No |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

# Goal 17 Significant Riparian Area Criteria

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|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R27 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | Yes | |
| **2** Does the riparian area have a high thermal regulation function? | | No |
| **3** Does the riparian area have a high wildlife habitat function? | | No |
| **4** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| **5** Does the riparian corridor contain a rare plant community? | | No |
| **6** Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R28-R |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

| ***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.** | | |
|---|---|---|
| **1** Does the riparian area have a high water quality function? | Yes | |
| **2** Does the riparian area have a high thermal regulation function? | | No |
| **3** Does the riparian area have a high wildlife habitat function? | Yes | |
| **4** Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| **5** Does the riparian corridor contain a rare plant community? | | No |
| **6** Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

# Goal 17 Significant Riparian Area Criteria

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R30 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Area Criteria:*** **A riparian area is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high thermal regulation function? | | No |
| 3 | Does the riparian area have a high wildlife habitat function? | | No |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | Yes | |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |

| | | | |
|---|---|---|---|
| **Project Name:** | City of Waldport Goal 17 | **Riparian Code:** | R31 |
| **Project Location:** | Lincoln County | | |
| **Date:** | May 1999 | | |

***Goal 17 Significant Riparian Corridor Criteria:*** **A riparian corridor is considered to be significant if "Yes" is the answer to any of the criteria below.**

| | | | |
|---|---|---|---|
| 1 | Does the riparian area have a high water quality function? | Yes | |
| 2 | Does the riparian area have a high thermal regulation function? | Yes | |
| 3 | Does the riparian area have a high wildlife habitat function? | Yes | |
| 4 | Is the riparian area adjacent to the Alsea River, Lint Slough, or McKinney Slough (water bodies mapped by ODFW as essential indigenous anadromous salmonid habitat) | | No |
| 5 | Does the riparian corridor contain a rare plant community? | | No |
| 6 | Is the riparian area inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |

| | | |
|---|---|---|
| **GOAL 17 SIGNIFICANT RIPARIAN AREA CRITERIA SATISFIED?** | **YES** | |