DIVISION OF STATE LANDS
RECEIVED
98 SEP 30 A 8:49

September 24, 1998

Annette Lalka
Division of State Lands
775 Summer St. NE
Salem, Oregon 97310

Dear Annette,

Enclosed is the final report for the City of Stayton's LWI and RCI and Assessment. I have corrected the wetland data sheets, wetland summary sheets for M7 and M8, Table 1, maps 1 and 2, and made the necessary adjustments to the body of the report. I have also included a disc with the mapping data.

I hope you enjoy it!!!! I look forward to your final approval and the return of the photographs when you have the opportunity to send them.

Sincerely,

Christie Galen

Christie Galen, staff ecologist

Fishman Environmental Services • 434 NW Sixth Avenue • Suite 304 • Portland, OR 97209-3600 • 503-224-0333

Printed on Recycled Paper

# CITY OF STAYTON
## LOCAL WETLANDS
## &
## RIPARIAN INVENTORY


**City of Stayton**
**362 North Third Avenue**
**Stayton, Oregon 97383**
**(503) 769-3425**

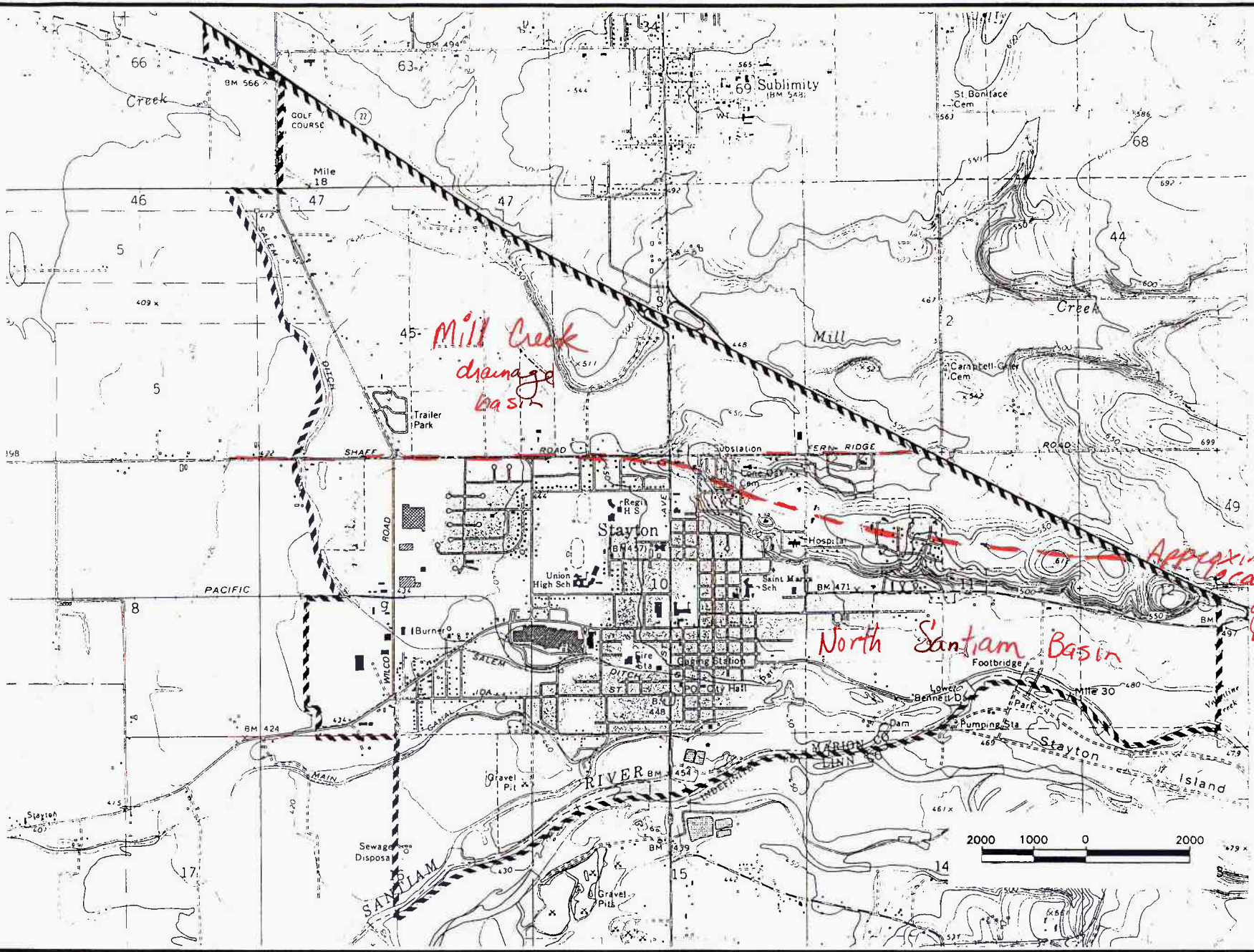
**Prepared by:**

**Fishman Environmental Services**
***Consultants in Ecology and Natural Resource Assessment***
**Project Manager: Christie Galen**
**434 NW Sixth Avenue, Suite 304**
**Portland, Oregon 97204-3600**
**(503) 224-0333**


**FES Project 97047**

**July 1998**


APPROVED WETLANDS INVENTORY
Oregon Division of State Lands
Meets LWI standards
Date 10/30/98 Approved by A. Lalka




LEGEND

Study Area Boundary/City of Stayton UGB w/ Drainage Basins

Source: USGS Stayton, Oregon Topographic Quadrangle, 1969, photorevised 1986

| | |
|---|---|
| DRAWN: | S. Benjamin |
| APPROVED: | C. Galen |
| DATE: | December 1997 |
| SCALE: | As shown |

# City of Stayton
# Local Wetlands and Riparian Corridor Inventory

## SITE LOCATION MAP

Figure # 1 | Project # 97047

5/31/89

# HYDRIC SOILS IN MARION COUNTY AREA, OREGON

Compiled by U.S. Soil Conservation Service

| MAP SYMBOL | NAME | HYDRIC COMPONENT |
|---|---|---|
| Ba | Bashaw Clay | Bashaw All |
| Co | Concord Silt Loam | Concord All |
| Cu | Courtney Gravelly Silty Clay Loam | Courtney All |
| Da | Dayton Silt Loam | Dayton All |
| La | Labish Silty Clay Loam | Labish All |
| MyB | Minniece Silty Clay Loam, 0-8% slopes | Minniece All |
| So | Semiahmoo Muck | Semiahmoo All |
| Wa | Waldo Silty Clay Loam | Waldo All |
| Wc | Wapato Silty Clay Loam, | Wapato All |
| Ad | Alluvial land | All |

Soils with Hydric Inclusions

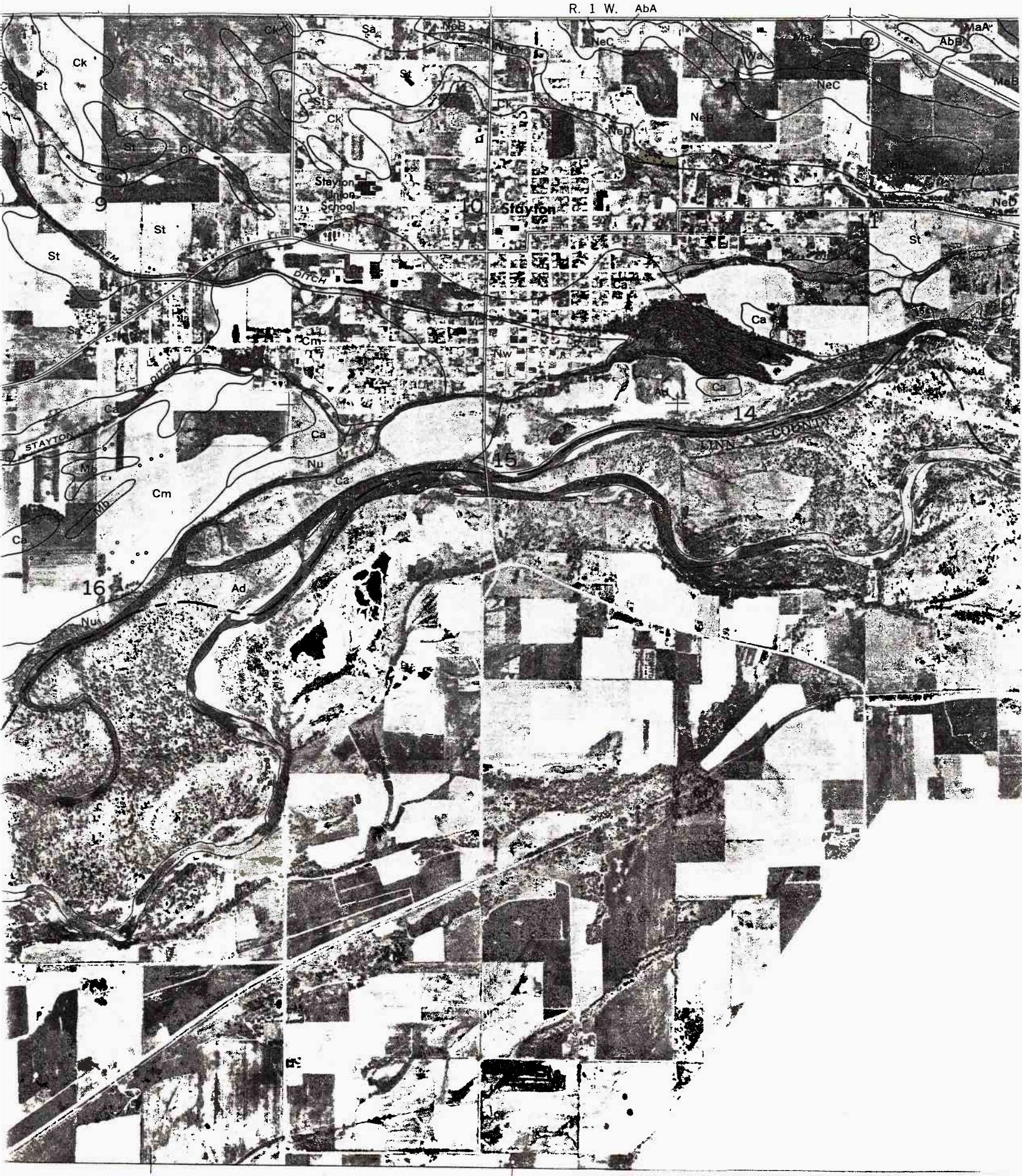
| MAP SYMBOL | NAME | HYDRIC COMPONENT |
|---|---|---|
| AbA | Abiqua Silty Clay Loam, 0-3% slopes | Waldo inclusion |
| Am | Amity Silt Loam | Concord inclusion |
| Ck | Clackamas Gravelly Loam | Courtney inclusion |
| ClD | Cumley Silty Clay Loam, 2-20% slopes | Minniece inclusion |
| HcD2 | Hazelair Silty Clay Loam, 2-15% slopes, eroded | Wet spots |
| MaA | McAlpin Silty Clay Loam, 0-3% slopes | Waldo inclusion |
| Mb | McBee Silty Clay Loam | Wapato inclusion |
| NeB | Nekia Silty Clay Loam, 2-7% slopes | Wet spots |
| NeC | Nekia Silty Clay Loam, 7-12% slopes | Wet spots |
| SlB | Salkum Silty Clay Loam, basin, 0-6% slopes | Waldo inclusion |
| SvB | Stayton Silt Loam, 0-7% slopes | Wet spots |
| WuA | Woodburn Silt Loam, 0-3% slopes | Somewhat poorly drained inclusions |

| | | |
|---|---|---|
| 47C | Netarts Fine Sand, 3-12% slopes | Yaquina inclusions- interdune swales and low areas |
| 47E | Netarts Fine Sand, 12-30% slopes | Yaquina inclusions- interdune swales and low areas |
| 51A | Quillamook Silt Loam, 0-3% slopes | Hebo inclusions and wet spots- depressions |
| 54A | Siletz Silt Loam, 0-3% slopes | Hebo inclusions and wet spots- depressions |
| 57A | Treharne Silt Loam, 0-3% slopes | Inclusions of fluvaquents; and wet spots- depressions on floodplains; depressions |
| 59C | Urban Land-Nelscott Complex, 0-12% slopes | Depoe inclusions- nearly level depressions |
| 60C | Urban Land-Waldport Complex, 0-12% slopes | Inclusions of wet soils; and Yaquina soils- interdune swales and low areas |
| 62C | Wadecreek Silt Loam, 3-12% slopes | Wet spots- nearly level depressions |
| 63E | Waldport Fine Sand, 0-30% slopes | Inclusions of wet soils; and Yaquina soils- interdune swales and low areas |
| 65A | Wolfer Silt Loam, 0-3% slopes | Wet spots- depressions |
| 66A | Yachats Very Fine Sandy Loam, 0-3% slopes | Brenner inclusions-depressions on floodplains |

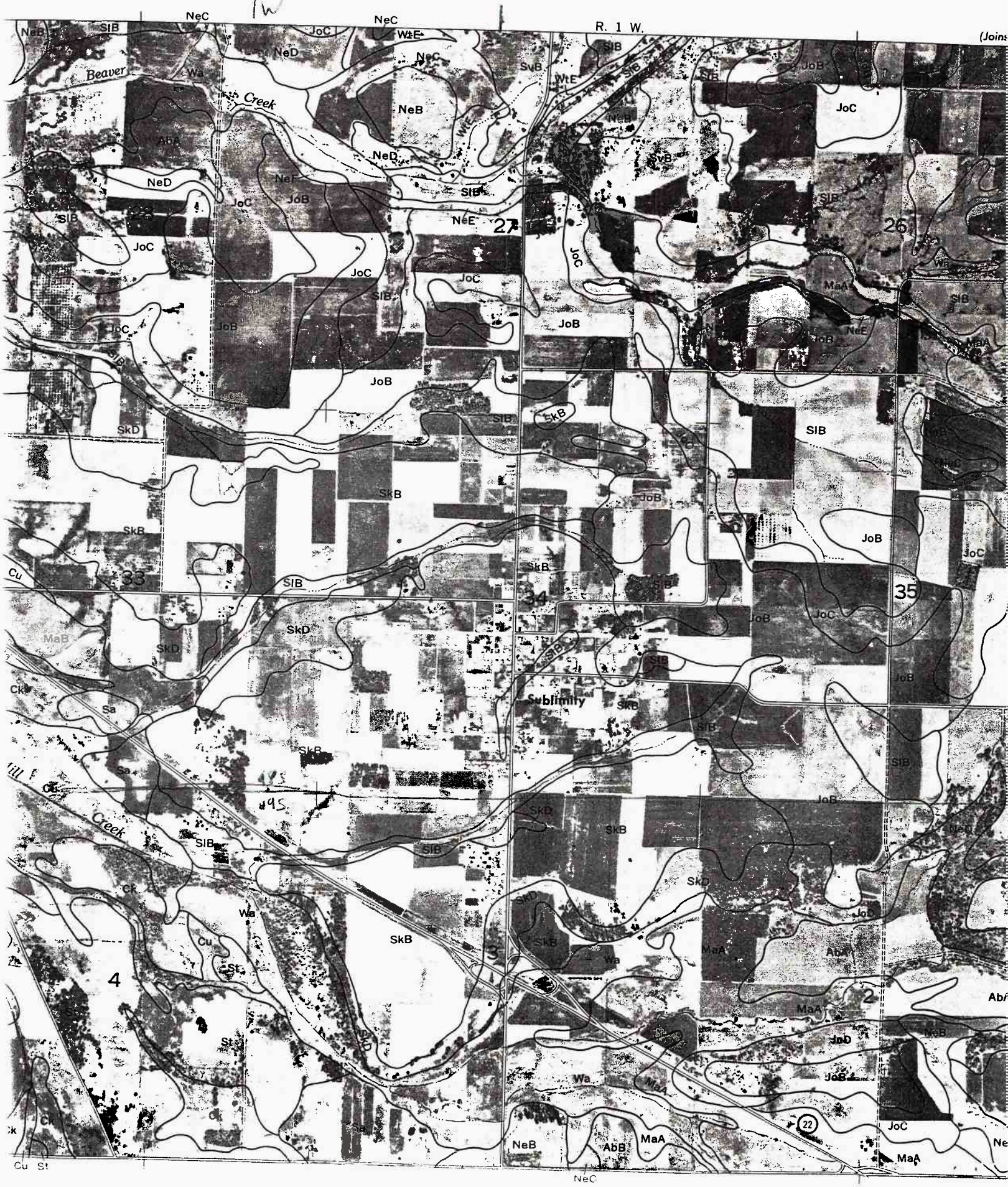
MARION COUNTY AREA, OREGON

MARION COUNTY AREA, OREGON — SHEET NUMBER 65

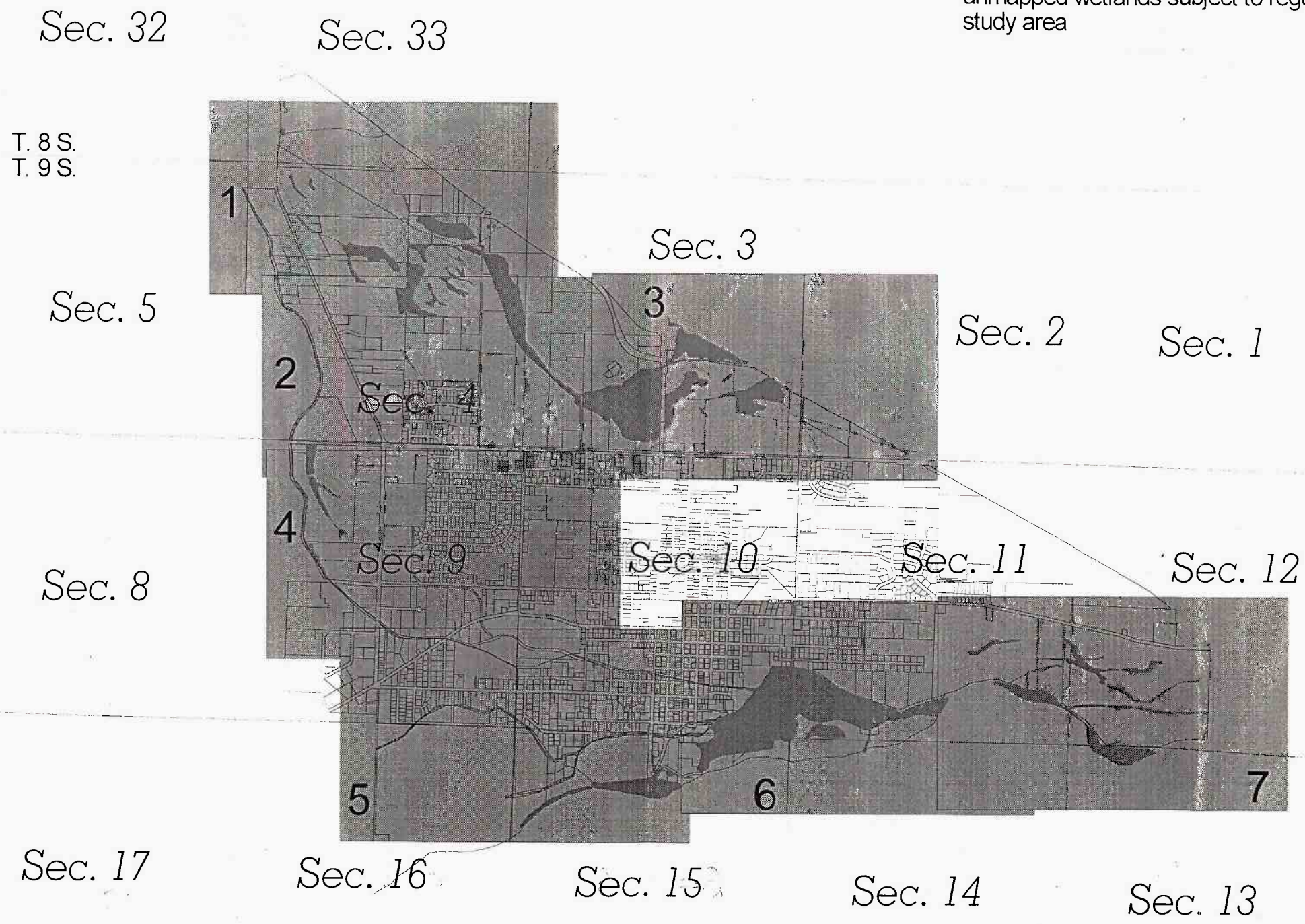
9S 1W



MARION COUNTY AREA, OREGON — SHEET NUMBER 55



Information shown on this map is for planning purposes only and all wetland boundaries are approximate. In all cases, actual field conditions determine wetland boundaries. There may be unmapped wetlands subject to regulation within the study area




Map Sheet Number
1
2
3
4
5
6
7

*Section Numbers (Township 8 & 9 South and Range 1 west)*

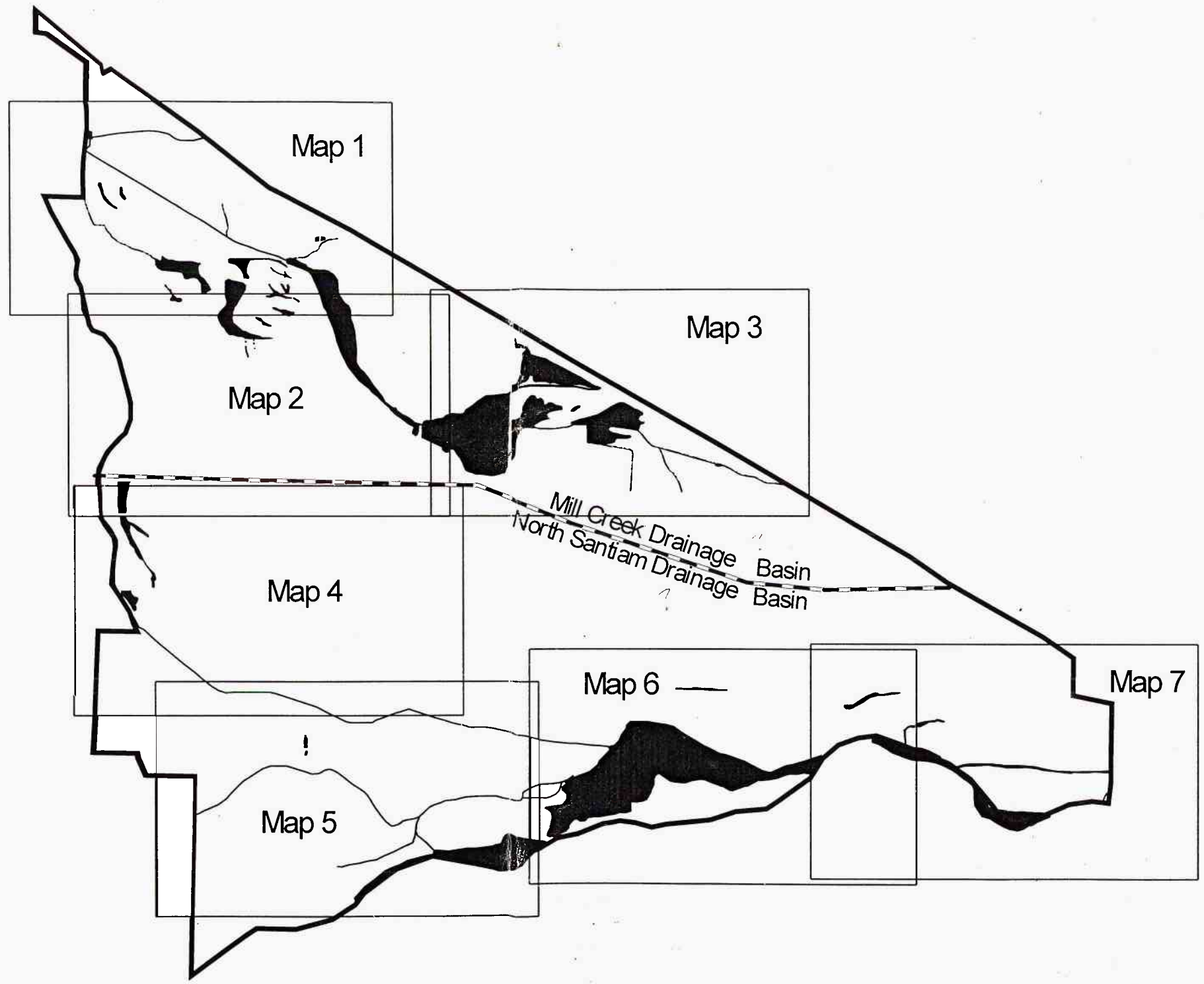
STREAMS
Intermittent
Perennial
WETLANDS
TAXLOTS

2000 0 2000 4000 Feet

Taxlot map source: Marion/Salem Central Computer Facility (Data Center) 5/20/97
Map Projection State Plane, Zone 5076
Map units international feet, datum HPGN 83/91


Fishman Environmental Services
*Consultants in ecology and natural resource management*
434 NW Sixth Avenue, Suite 304
Portland, OR 97209
(503)224-0333


# City of Stayton
# Local Wetlands and Riparian Inventory
# Map Sheet Index with Section Numbers




**LEGEND**

Watershed Divide

Map Frames

1

WETLANDS

Study Area Boundary

STREAMS

Intermittent

Perennial

N W E S

1000 0 1000 2000 Feet

Fishman Environmental Services
*Consultants in ecology and natural resource management*
434 NW Sixth Avenue, Suite 304
Portland, OR 97209
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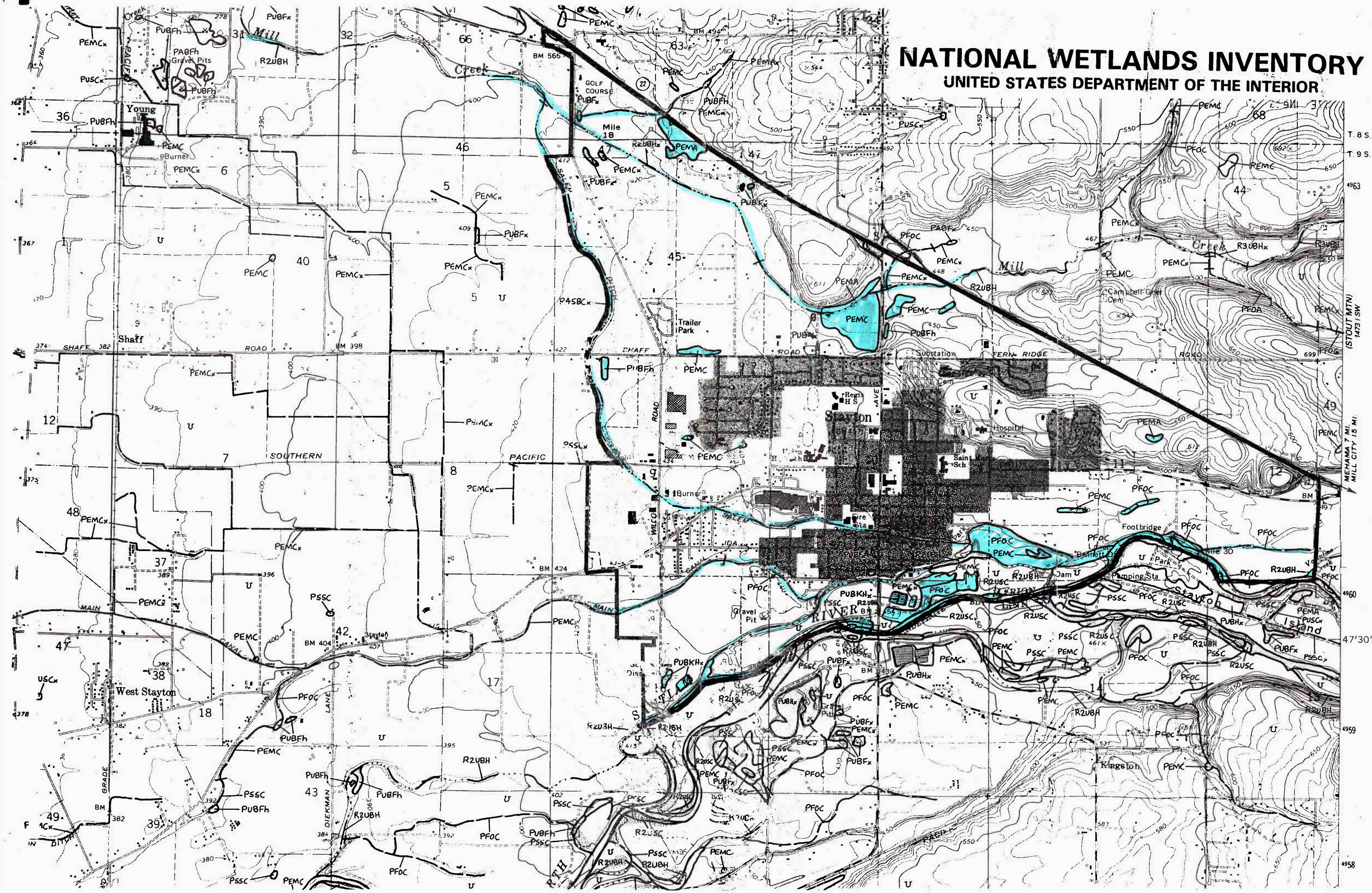
# City of Stayton Local Wetlands and Riparian Inventory

**Index Map**

# NATIONAL WETLANDS INVENTORY

## UNITED STATES DEPARTMENT OF THE INTERIOR



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## EXECUTIVE SUMMARY

An inventory of wetlands and riparian corridors was conducted within the City of Stayton's Urban Growth Boundary (UGB) during the summer of 1997. The Stayton UGB encompasses approximately 4.7 square miles (3,033 acres) and is on the eastern edge of the Willamette Valley in Marion County, Oregon. Wetland sites were described, assessed, field mapped on ortho-aerial photographs (July, 1996; scale 1 inch = 400 feet), and digitized. Riparian corridors were described, mapped and evaluated.

Thirty wetland sites were inventoried within the Stayton UGB. Wetlands were identified based on the methodology contained in the 1987 *Corps of Engineers Wetlands Delineation Manual* and were inventoried and mapped according to the Local Wetlands Inventory Onsite and Offsite procedures. Approximately 245 acres of wetlands were identified within the study area including open water (17.5 acres), emergent (107 acres), scrub-shrub (7.5 acres), forest (85 acres), forest mosaic (18 acres), emergent mosaic (5.5 acres) and filled wetlands (4 acres). 13 riparian sites were documented.

Twenty six of the 30 wetland sites were combined into 21 wetland units for assessment using the Oregon Freshwater Assessment Methodology (OFWAM), which evaluates wetland functions and values relative to other wetlands within the study area; 4 wetlands were too small to evaluate. These 21 wetland units represent two major wetland drainage systems (Mill Creek and North Santiam River) and 10 isolated wetlands.

The Locally Significant Wetlands criteria recently developed by the Division of State Lands (DSL) were applied to the wetland units within the City; 16 of the 21 wetland units met the criteria and are considered Locally Significant Wetlands.

# 1 INTRODUCTION

The City of Stayton, Oregon contracted Fishman Environmental Services (FES) to conduct a Local Wetlands Inventory (LWI) and Riparian Inventory within the City's Urban Growth Boundary (UGB) to fulfill the requirements of Oregon's Land Conservation and Development Commission's (LCDC) Statewide Planning Goal 5.

Funding for this project was provided by a wetlands planning assistance grant from the Division of State Lands (DSL). The DSL grant program is supported by a grant from the U.S. Environmental Protection Agency under the authority of Section 104(b)(3) of the Clean Water Act. A portion of the federal grant is designated to assist local governments develop wetlands inventories and plans for their jurisdiction. The City of Stayton provided in-kind services and support for this project.

The purpose of conducting these inventories is to evaluate wetland and riparian resources within the study area. Inventory information will aid the City and its citizens in making well-informed planning decisions and enable the City to complete the planning process required by Goal 5.

Local wetland inventories provide better information for land owners and the local jurisdiction than the National Wetlands Inventory maps and once approved by the DSL they are incorporated into the statewide wetland inventory. Wetland boundaries can be used as a guide for planning purposes. However, wetland determinations are not of sufficient detail for regulatory certainty under the State Removal-Fill Law. On-site wetland boundary delineations will need to be conducted on non-delineated sites prior to alteration of wetlands through the state- and federally-regulated wetland fill permit process. This LWI was conducted according to the DSL LWI Standards and Guidelines (OAR 141-86-180 to 141-86-240), revised 12/15/94.

# 2 STUDY AREA

The study area is the City of Stayton's Urban Growth Boundary (UGB) and includes approximately 4.7 square miles (3,033 acres) on the eastern edge of the Willamette Valley, east of Salem in Marion County, Oregon. It is bounded on the north by State Highway 22, on the south by the North Santiam River and on the west by the Salem Water Ditch. The eastern edge of the UGB is located east of Gehren Island Road. The USGS topographic survey for Stayton is shown in Figure 1. The National Wetlands Inventory map of the study area is shown in Figure 2. Soils mapped within the study area are shown in Figure 3.

## 2.1 Drainage and Water Systems

The study area is relatively flat and includes 2 drainage basins: Mill Creek and North Santiam River. The north end of the study area (north of Shaff and Fern Ridge Roads) drains north towards Mill Creek. Mill Creek flows from east to west. The rest of the study area generally drains south to the North Santiam River. Wetlands are typically located along these drainages or along seasonal tributaries.

There are two other significant water systems in the study area that were constructed to divert water from the North Santiam River for industrial purposes and power generation. The Salem Water Ditch was originally constructed in the 1850's to provide water to Salem Woolen mills. It forms the western boundary of the UGB and connects to Mill Creek in the northwest corner of the study area. The Stayton Water Ditch was originally constructed in the mid-1860's to provide water to industries near Water Street and is used for the city water supply and power generation. Both of these water systems have become naturalized and support fish and wildlife species. They are important riparian corridor resources.

### 2.2 Sensitive Species and Unique Features in Stayton UGB

No sensitive, threatened or endangered plant or wildlife species have been documented in the study area (ODFW, Wayne Hunt, 5/27/97). Turtles were observed basking in Wilderness Park (W12) early in this field survey but species were not confirmed. It is likely they are western pond turtles which are federal species of concern and Oregon sensitive species of critical status.

Fish inventories specific to the Stayton area are limited but the waterways have been evaluated by the Oregon Department of Fish and Wildlife (ODFW). Many native and introduced fish species have been documented in the North Santiam River, Salem Water Ditch, Stayton Water Ditch and Mill Creek. Important species include Chinook salmon, coho salmon, steelhead, cutthroat trout and Oregon chub. The Oregon chub is a federally listed endangered species; they have been found in good numbers on Gehren Island (ODFW, Wayne Hunt, 5/27/97). In the study area Mill Creek is considered a headwater stream and provides important food and water resources for downstream fish.

Wilderness Park (W12) is a 55 acre natural forested park located adjacent to the North Santiam River. Its large size, plant diversity, public access and trail system provide the community with a unique resource.

## 3 LOCAL WETLAND INVENTORY METHODOLOGY

### 3.1 Wetland Definition and Identification

Wetlands are defined as areas of shallow groundwater tables or perched water. They typically contain hydric soils and vegetation is dominated by plants adapted for growing in wet conditions. Wetlands generally include swamps, marshes, bogs, and similar areas, but also include seasonally wet meadows, farmed wetlands and other areas that may not appear "wet" all the time.

Wetlands were identified based on the methodology contained in the 1987 *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987). Where access was denied wetland boundaries were mapped based on interpretation of aerial photographs. In forested wetlands, boundaries were estimated since forest cover concealed precise boundaries; in forested wetland/upland mosaics, the entire area was mapped and labeled mosaic.

### 3.2 Wetland Mapping

Wetlands were mapped on a set of digital orthophotos. A digital orthophoto is a digital image of an aerial photograph in which displacement caused by the camera and the curvature of the earth have been corrected or rectified. It combines the image characteristics of a photograph with the geometric qualities of a map (USDI USGS, 1994). The digital orthophotos were created for this project by Spencer B. Gross using color imagery flown in July, 1996, with a two foot pixel resolution. The City of Stayton orthophoto set consists of nine orthophoto files stored in a tagged image file format (.TIF), with an ArcView world file (.TFW) used to reference the images to the Oregon State Plane Coordinate System. A set of color plots (scale: 1 inch = 400 feet) were made from the digital data and used in the field for mapping wetland polygons. The wetlands were then heads up (on screen) digitized from the field maps using ArcView 3.0a.

Heads up digitizing was selected for this project to allow greater flexibility in drawing the wetland boundary lines. By using this technique the operator can zoom in to view and map wetland areas at a larger scale than 1 inch = 400 feet. On screen resolution of 1 inch = 200 feet was clearly viewed from the two foot pixel orthophotos. Thus, the GIS operator could draw the wetland boundaries more precisely on the screen than by tracing directly from the field maps. Digitized wetland boundaries were checked on-screen by the field staff.

The wetland polygons were stored as an ArcView shapefile. Additional shapefiles or layers created for this project in ArcView include: sample plot locations, riparian streams, wetland viewpoints and culverts. These shapefiles were then mapped and referenced to a tax lot shapefile layer clipped to the City of Stayton urban growth boundary from the Marion/Salem Central Computer Facility (Data Center). Layers and shapefiles were attributed, and then formatted to create the final paper maps, at a scale of 1 inch= 400 feet (1:4,800).

### 3.3 Wetland Labeling

Site numbers were assigned based on hydrologic sub-basin and drainage patterns. Wetland sites were consecutively numbered from upstream to downstream. For example a wetland on Mill Creek is labeled M1, M for Mill Creek and 1 for the uppermost wetland in the drainage. Tributary streams are labeled with a T, i.e., MT for a tributary to Mill Creek. Isolated wetlands are labeled with the letter corresponding to the drainage sub-basin where they are located except along the North Santiam River where they are labeled with a T.

### 3.4 Wetland Summary Sheets

A summary sheet for each wetland resource site is included in Appendix 2. Summary sheets include location information, quarter section, field date and delineation date if applicable. They also include a general description of each site, hydrologic source, mapped and or sampled soils, dominant vegetation, NWI classification, special modifier, wetland boundary information, approximate wetland acreage, important wetland functions and local significance.

### 3.5 Wetland Assessment

Wetlands were assessed using the *Oregon Freshwater Wetland Assessment Methodology* (OFWAM; Roth et al., 1993, revised 1996, and 1997 supplement), which evaluates wetland functions and values relative to other wetlands within the study area. Wetland functions evaluated

for this study include wildlife habitat, fish habitat, water quality and hydrologic control; wetland values include sensitivity to future impacts, enhancement potential, education, recreation and aesthetic quality.

# 4 RIPARIAN CORRIDOR INVENTORY METHODOLOGY

## 4.1 Riparian Corridor Definition and Mapping

A riparian area is often defined as the area adjacent to a river, lake, or stream consisting of the area of transition from an aquatic ecosystem to a terrestrial system. In this inventory, riparian corridors were defined as areas including perennial streams, adjacent wetlands (if present), and adjacent uplands that affect the stream. Most of the riparian corridors were mapped 50 feet from the top of bank or from the upland edge of an adjacent wetland as prescribed for Goal 5 for streams with a flow less than 1000 cfs. The North Santiam River riparian corridor was mapped 75 feet from the top of bank or from the upland edge of an adjacent wetland complex as prescribed for Goal 5 for streams with a flow greater than 1000 cfs. Riparian corridors were divided into reaches based on distinct habitat changes.

## 4.2 Riparian Labeling

Riparian corridor sites were numbered with an alphanumeric code; the first letter "R" identifies that it's a riparian corridor, the second couple of letters are the initials of the stream, and the number identifies the reach. For example a riparian corridor on Mill Creek is labeled RMC-1; R for riparian, MC for Mill Creek and 1 for the uppermost reach in the drainage. Other riparian sites in this study include: RSD = Salem Ditch, RST = Stayton Ditch, and NSR = North Santiam River.

## 4.3 Riparian Corridor Summary Sheets

A summary sheet for each riparian corridor reach is included in Appendix 7. Summary sheets include location information, field date, a general description of each site, channel and stream characteristics, surrounding land use, vegetation, and riparian functions.

## 4.4 Riparian Corridor Assessment

Riparian corridors were assessed using criteria described in the *Draft Urban Riparian Inventory and Assessment Guide* (ODSL 1998). Riparian functions evaluated for this study include wildlife habitat, water quality, thermal regulation. and flood management.

# 5 LWI RESULTS

Although all efforts have been made to identify all wetland resources with the City's UGB, there is no guarantee that all wetlands have been mapped. Wetland summary tables are included in Appendix 1, wetland summary sheets are included in Appendix 2, and wetland determination data sheets are included in Appendix 3.

A total of 30 wetlands were inventoried (Table 1, Appendix 1). Twenty wetlands were associated with streams or ditches. Twelve wetlands were identified in the floodplain of Mill Creek (M1-M6, M8) and its tributaries (MT1-MT5). Seven wetlands were identified in the floodplain of the North

Santiam River (NS1-4) and its tributaries (NST1-NST3), and one wetland was identified connected to the Salem Water Ditch (SD-1).

In addition to these 20 wetlands, 10 isolated wetlands were mapped (M7, M9, MT2a, MT2b, NST4, NST5, NST6, SD2, SD3, SWT1). M7 includes depressions in an agricultural field; M9 includes 2 golf course ponds; MT2a includes 2 irrigation ponds, MT2b includes an emergent wetland; NST4 is a depression in a ryegrass field that has been isolated from other wetlands due to field tile; NST5 is a mitigation site; NST6 includes depressions in an agricultural field; SD2 is a depression in an agricultural field and SD3 is a man-made pond that receives water diverted from the Salem Water Ditch.

### 5.1 Wetland Acreage

Approximately 245 acres of wetlands were identified within the study area including 18 acres of wetland/upland forest mosaic, 5.5 acres of wetland/upland emergent mosaic, and 4 acres of fill. Approximately 20 acres of these wetlands have been delineated; the remainder have been "determined" by this inventory. The table below shows the types of wetland within the study area, the acreage, and the percent by habitat type.

**Wetlands of the Study Area**

| Total Acres | Wetland Type | Percent |
|---|---|---|
| 17.5 | Open Water (OW) | 7.2% |
| 107 | Emergent (EM) | 43.0% |
| 7.5 | Scrub-Shrub (SS) | 3.1% |
| 85.4 | Forest (FO) | 35.3% |
| 23.5 | Mosaic | 9.7% |
| 4.1 | Fill | 1.7% |
| **245.0** | **Total Wetlands** | **100%** |

Wetland acreage, habitat type and wetland modifier of individual wetland sites are shown in Table 1 (Appendix 1).

## 6 OREGON FRESHWATER WETLAND ASSESSMENT RESULTS

The 30 wetlands were condensed into 21 smaller wetland units for OFWAM assessment. Unit boundaries were defined by major roads, hydrologic isolation, or dramatically different habitat or land use practices. Four wetland units include more than one wetland (W1, W3, W7, W12); 17

include wetlands that were evaluated individually; 3 wetlands were not assessed due to their small size (MT2a, MT2b, SWT1); 1 small wetland stream (NST1) was too small to evaluate but was evaluated with an adjacent stream since they shared similar characteristics.

Table 1 identifies each wetland unit and its corresponding wetlands (Appendix 1). OFWAM Summary Sheets describing each wetland unit and their important wetland functions and values are included in Appendix 4. OFWAM answer sheets are included in Appendix 5 and assessment questions and characterization worksheets are included in Appendix 6. A summary table of the results of the OFWAM assessment is included in Table 2 (Appendix 1).

## 7 LOCALLY SIGNIFICANT WETLANDS

After completing the OFWAM assessment, the DSL criteria for "Locally Significant Wetlands (LSWs)" were applied according to the DSL *Administrative Rules for Identifying Significant Wetlands* (OAR 141-86-300 to 141-86-350, effective January 1, 1997). A summary table of LSWs is included in Table 3 (Appendix 1).

Fifteen of the wetland units are considered LSWs because at least one of the 4 ecological functions rated by OFWAM scored high (*diverse* wildlife habitat, *intact* fish habitat, *intact* water quality, or *intact* hydrologic control). W10 is also considered a LSW since fish habitat is degraded, and it occurs within 1/4 mile of a water quality-limited stream listed by DEQ. The remaining 5 wetland units, are isolated and have limited wetland functions and do not meet LSW criteria. These wetlands include depressions in actively plowed fields and golf course ponds.

## 8 RIPARIAN CORRIDOR INVENTORY RESULTS

Four stream/ditches were included in the riparian corridor study: North Santiam River, Mill Creek, Salem Water Ditch and Stayton Water Ditch. Both ditches were created in the 1800's for industrial purposes. They divert water from the North Santiam River and have become naturalized over the last century.

Thirteen reaches of these streams were evaluated for water quality, flood management, thermal regulation and wildlife habitat. Forested sites rated highest for all functions. Sites without adjacent trees would have higher values if vegetation were enhanced with a variety of native trees and shrubs. Protecting riparian corridors from ornamental landscaping, mowing, and other impacts would also improve their value. A summary table of the results of riparian corridor assessment is included in Table 4 (Appendix 1).

# 9 PROJECT STAFF QUALIFICATIONS

**Christie Galen, Wetlands Ecologist**
**B.S. Biology, 1978**

Christie Galen has extensive experience in managing and conducting wetland and natural area inventories and assessments, and conducting wildlife habitat and threatened and endangered species evaluations for FES projects throughout the Pacific Northwest region. Her specialties include wetland delineations and assessments, wildlife habitat evaluations, threatened and endangered species inventories and biological assessment preparation, and habitat restoration and monitoring. She has managed and conducted the wetlands and/or riparian inventories for the Cities of Tualatin, Tigard, Cannon Beach, Lake Oswego, Newberg and Salem, Oregon, and assisted with the City of La Grande wetlands inventory and assessment. Christie has conducted many sensitive, threatened and endangered species inventories and habitat evaluations in Oregon and Washington.

**C. Mirth Walker, PWS, Wetlands Program Manager**
**B.A. Biology and Psychology, 1979**

Mirth Walker is a certified Professional Wetland Scientist by the Society of Wetland Scientists and is certified as a Wetland Delineator by the U.S. Army Corps of Engineers Seattle District in their provisional program. She has assisted with the Wetland Delineation Training courses offered through Portland State University in cooperation with the Wetlands Training Institute. Mirth has an extensive background in biology and the natural sciences, and has conducted and managed numerous wetland projects throughout Oregon and Washington. Mirth has primary responsibility for coordinating, managing and conducting wetland delineation, mitigation, and permit projects at FES, which she joined in May of 1994. She was previously the Wetlands Specialist at an environmental and geotechnical consulting firm in the Portland area. Mirth was the project manager for the Wilsonville and La Grande Local Wetlands Inventories, and assisted with the City of Stayton Local Wetlands Inventory, the City of Tualatin Natural Resource Inventory and Local Wetlands Inventory, and the update of the City of Tigard Local Wetlands Inventory and Wetlands Assessment.

**Peter Britz, Natural Resource Planner**
**M.M.A. Master of Marine Affairs, 1994**

Peter is a natural resource planner at FES with experience in Oregon and Washington. Peter has extensive experience with Geographic Information Systems (GIS), specifically PC ARC/INFO® and ArcView GIS®. Peter has assembled wetland, wildlife, vegetation cover, land cover, and land use GIS layers from aerial photographs, existing data and maps, GPS data, and satellite imagery. Using GIS Peter has performed complex spatial queries on data layers to assist in scientific understanding and in making planning level decisions. Peter has designed and coordinated the GIS component for the Local Wetland Inventories in Wilsonville and Stayton, Oregon. Both projects rely on the use of digital orthophotography to map and quantify wetland areas. Peter is also experienced in the use of GPS to collect position information and then translate that position information into digital map layers.

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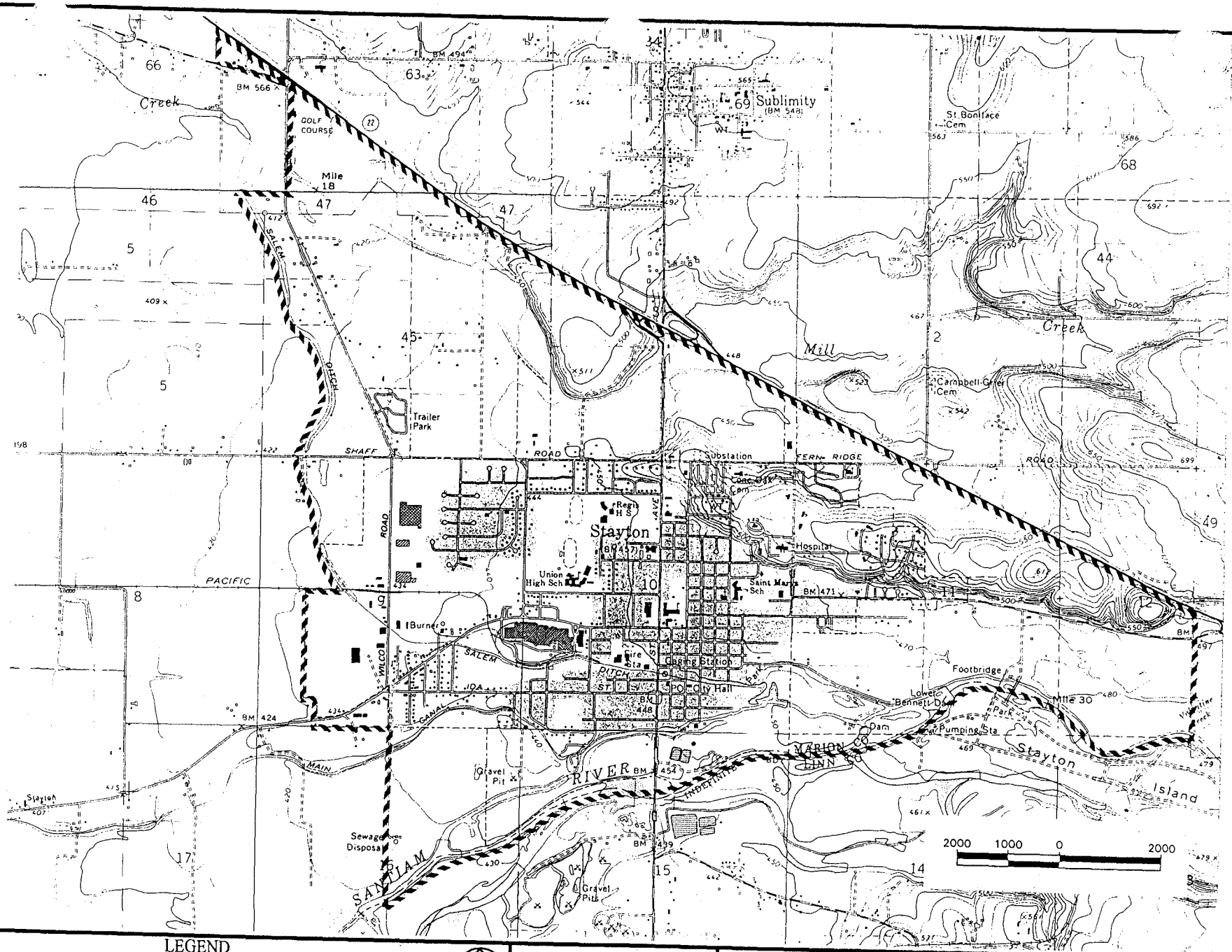



LEGEND

Study Area Boundary/City of Stayton UGB

Source: USGS Stayton, Oregon Topographic Quadrangle, 1969, photorevised 1986

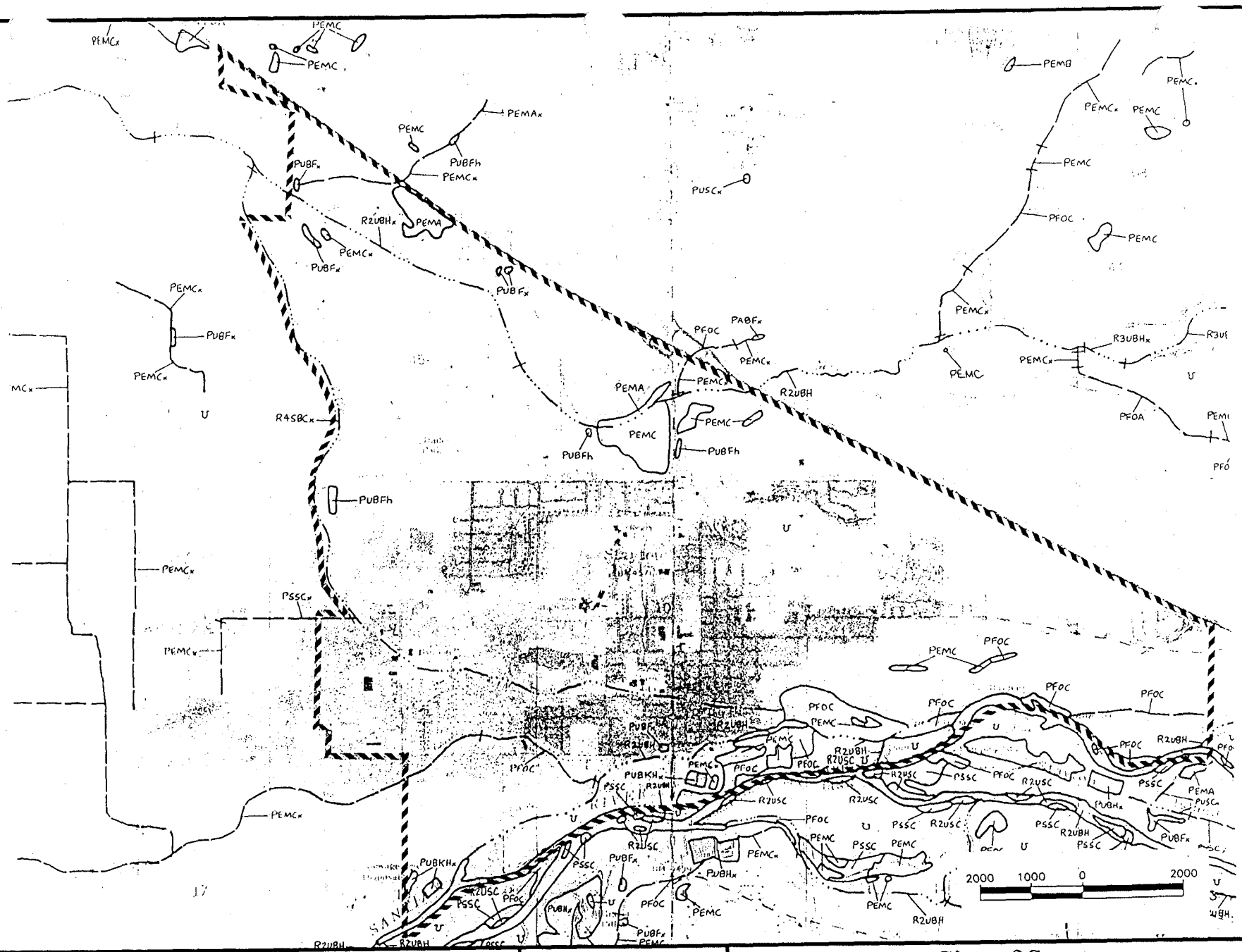
| | |
|---|---|
| DRAWN: | S. Benjamin |
| APPROVED: | C. Galen |
| DATE: | December 1997 |
| SCALE: | As shown |

# City of Stayton
# Local Wetlands and Riparian Corridor Inventory

## SITE LOCATION MAP

Figure # 1

Project # 97047




LEGEND

Study Area Boundary/City of Stayton UGB

Source: USFWS Stayton, Oregon NWI Quadrangle, 1994

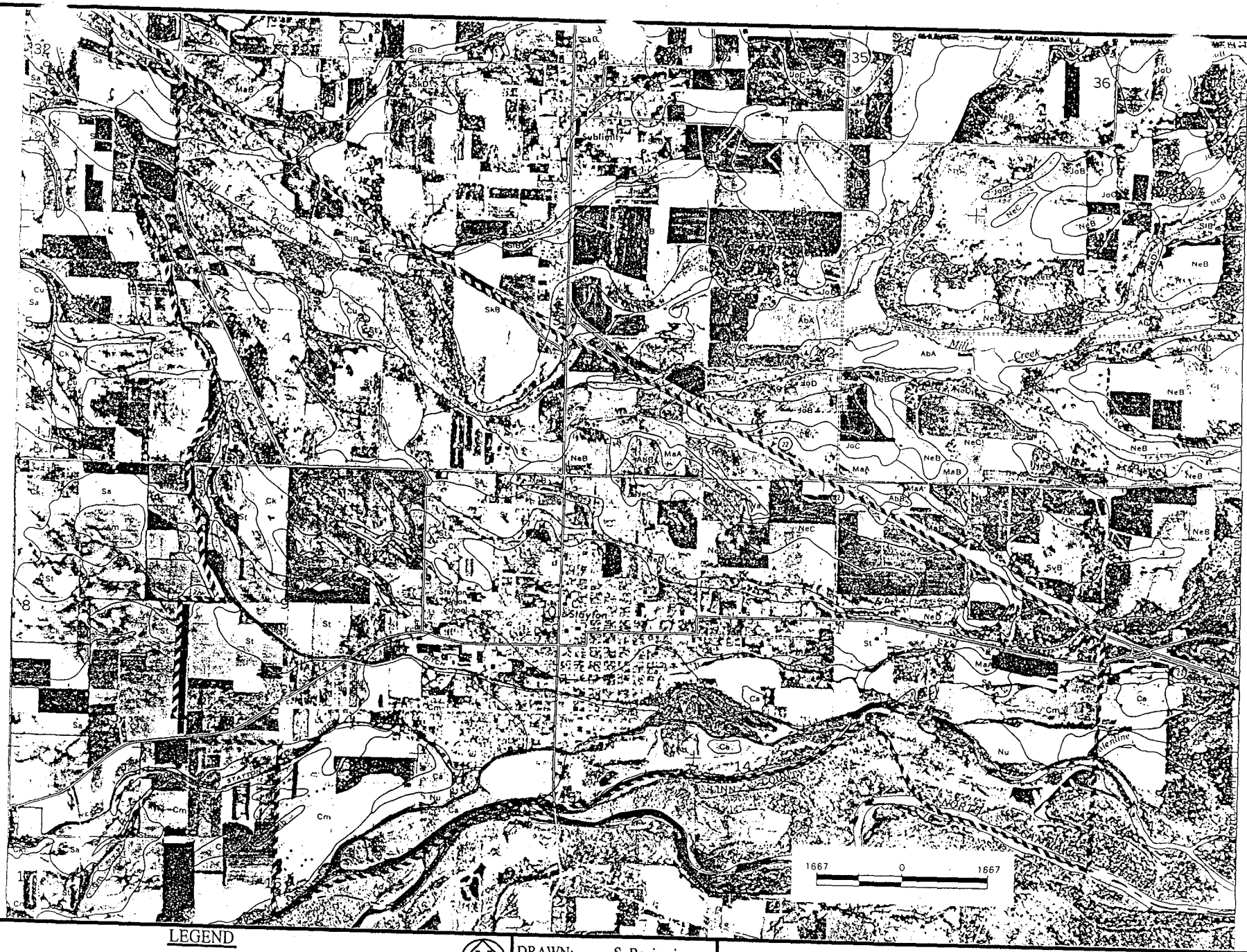
| | |
|---|---|
| DRAWN: | S. Benjamin |
| APPROVED: | C. Galen |
| DATE: | December 1997 |
| SCALE: | As shown |

# City of Stayton
# Local Wetlands and Riparian Corridor Inventory

## NATIONAL WETLANDS INVENTORY MAP

Figure # 2

Project # 97047




LEGEND

Study Area Boundary/City of Stayton UGB

Source: USDA SCS Soil Survey of Marion County Area, Oregon, 1972, sheets 55 & 65

| | |
|---|---|
| DRAWN: | S. Benjamin |
| APPROVED: | C. Galen |
| DATE: | December 1997 |
| SCALE: | As shown |

# City of Stayton
# Local Wetlands and Riparian Corridor Inventory

## SOILS MAP

Figure # 3

Project # 97047

Stayton Soils List

| Map Symbol | Soil Name | Hydric Component |
|---|---|---|
| AbB | Abiqua silty clay loam, 3-5% slopes | |
| Ad* | Alluvial land | all |
| Ca | Camas gravelly sandy loam | |
| Ck** | Clackamas gravelly loam | Courtney s.i. |
| Cm | Cloquato silt loam | |
| Cu* | Courtney gravelly silty clay loam | |
| JoD | Jory silty clay loam, 12-20% slopes | |
| MaA** | McAlpin silty clay loam, 0-3% slopes | Waldo s.i. |
| MaB | McAlpin silty clay loam, 3-6% slopes | |
| Mb** | McBee silty clay loam | Wapato s.i. |
| NeB** | Nekia silty clay loam, 2-7% slopes | wet spots |
| NeC** | Nekia silty clay loam, 7-12% slopes | wet spots |
| NeD | Nekia silty clay loam, 12-20% slopes | |
| Nu | Newberg fine sandy loam | |
| Sa | Salem gravelly silt loam | |
| SkB | Salkum silty clay loam, 2-6% slopes | |
| SkD | Salkum silty clay loam, 6-20% slopes | |
| Slb** | Salkum silty clay loam, basin, 0-6% slopes | Waldo s.i. |
| St | Sifton gravelly loam | |
| SvB** | Stayton silt loam, 0-7% slopes | wet spots |
| Wa* | Waldo silty clay loam | |

* Hydric soils ( )
** Soils with hydric inclusions ( )

# APPENDICES

| | |
|---|---|
| APPENDIX 1 | CITY OF STAYTON WETLANDS SUMMARY TABLES: |
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| APPENDIX 5 | OFWAM ANSWER SHEET |
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# APPENDIX 1

## CITY OF STAYTON WETLANDS SUMMARY TABLES:


TABLE 1. CLASSIFICATION AND ACREAGE

TABLE 2. OFWAM SUMMARY TABLE OF FUNCTIONS AND VALUES

TABLE 3. LOCALLY SIGNIFICANT WETLANDS (LSW)

TABLE 4. RIPARIAN CORRIDOR ASSESSMENT

TABLE 5. TAX LOTS IN WETLAND RESOURCES

## Table 1. City of Stayton Wetlands Classification and Acreage

| WL# | Unit | Location | Acres | POWh | POWx | PEM | PEMx | PEMf | PEMh | PEMp | PSS | PFO | Mosaic | fill** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M1 | W1 | Mill Cr. east of 1st Ave. | 1.2 | | | | | | | | 1.2 | | | |
| M2 | W1 | ODOT mitigation e. of 1st Ave. | 10.3 | | | 0.5 | 9.8 | | | | | | | |
| M3 | W2 | between 1st & w. of Oakmont | 34.65 | | 0.45 | 19 | | | | 15.2 | | | | |
| M4 | W3 | between Golf Club Rd & Oakmont | 19.4 | | | | | | | | | 19.4 | | |
| M5 | W4 | south of Golf Lane | 6.4 | | | | | 3.6 | | 2.8 | | | | |
| M6 | W5 | east of Golf Club Road | 9.8 | | | | | | | | | 9.8 | | |
| M7 | W6 | east of Golf Club Road | 4 | | | | | 4 | | | | | | |
| M8 | W7 | east of Golf Club Road | 6.6 | | | | | | | 6.6 | | | | |
| M9 | W8 | golf course ponds | 1 | | 0.9 | | 0.1 | | | | | | | |
| MT1 | W9 | Lucas Ditch & FP east of 1st Ave. | 19.2 | | 1.2 | 15.6 | 1.1 | 0.3 | | | | 1 | | |
| MT2 | W3 | east of Golf Lane | 0.2 | | | | | | | | | 0.2 | | |
| MT2a | NA | east of Golf Lane | 0.2 | | 0.2 | | | | | | | | | |
| MT2b | NA | east of Golf Lane | 0.04 | | | 0.04 | | | | | | | | |
| MT3 | W3 | SE of Golf Club Rd/Hwy 22 | 0.55 | | | | | | | | | 0.55 | | |
| MT4 | W10 | Mill Creek / Stayton Golf Course | 1.3 | 0.3 | | 1 | | | | | | | | |
| MT5 | W7 | Golf Club Road | 0.8 | | | 0.8 | | | | | | | | |
| NS1 | W11 | Gehren Island Road | 13.5 | | | | | | | | | 13.5 | | |
| NS2 | W12 | Wilderness Park | 47.8 | | 11.3 | 2.5 | | | | | | 16 | 18 | |
| NS3 | W12 | east of Water Treatment plant | 32.5 | | 0.9 | 8.2 | | | | | | 13.8 | 5.5 | 4.1 |
| NS4 | W13 | riverbank E. & W. of 1st Avenue | 13.4 | | | | | | | | 6.3 | 7.1 | | |
| NST1 | NA | east of Gehren Island Road | 0.1 | | | | | | | | | 0.1 | | |
| NST2 | W14 | east of Gehren Island Road | 2.7 | | | | | | | | | 2.7 | | |
| NST3 | W15 | Gehren Island Road | 1 | | | 0.6 | | | | | | 0.4 | | |
| NST4 | W16 | SW of E. Santiam/Gehren Isd. Rd. | 1.4 | | | 1.4 | | | | | | | | |
| NST5 | W17 | Parkview mitigation | 0.5 | | | | | | | | | 0.5 | | |
| NST6 | W18 | east of Gehren Island Road | 7.1 | | | | | 7.1 | | | | | | |
| SD1 | W19 | NW of Locust/ Wilco Rd. | 0.6 | | | 0.6 | | | | | | | | |
| SD2 | W20 | SW of Shaff Rd/ Wilco Rd. | 2.9 | | | | | 2.9 | | | | | | |
| SD3 | W21 | SW of Shaff Rd/ Wilco Rd. | 2.2 | 2.2 | | | | | | | | | | |
| SWT1 | NA | near 1207 Ida Street | 0.4 | | | | | | 0.1 | | | 0.3 | | |
| | | **Total acres*** | 237.6 | 2.5 | 14.95 | 50.24 | 11 | 17.9 | 0.1 | 24.6 | 7.5 | 85.35 | 23.5 | 4.1 |

* Total Acres for all sites does not include fill category

** Fill - wetlands that appear to have been filled for development and abandoned

## Table 2. CITY OF STAYTON WETLANDS: OFWAM SUMMARY OF FUNCTIONS AND VALUES

| Wetland Unit | Wildlife Habitat | Fish Habitat | Water Quality | Hydrologic Control | Sensitivity to Future Impacts | Enhancement Potential* | Education | Recreation | Aesthetic Quality |
|---|---|---|---|---|---|---|---|---|---|
| W1 | some | degraded | intact | degraded | potentially sens. | high | has educational uses | potential | pleasing |
| W2 | some | degraded | intact | intact | potentially sens. | high | not appropriate | not appropriate | pleasing |
| W3 | diverse | intact | intact | intact | potentially sens. | - | has educational uses | provides rec. | pleasing |
| W4 | some | n.a. | intact | intact | potentially sens. | little | not appropriate | not appropriate | pleasing |
| W5 | some | n.a. | intact | intact | potentially sens. | moderate | not appropriate | not appropriate | pleasing |
| W6 | some | n.a. | degraded | degraded | sensitive | little | not appropriate | not appropriate | pleasing |
| W7 | some | degraded | intact | degraded | potentially sens. | moderate | potential | not appropriate | moderately pleasing |
| W8 | some | degraded | degraded | degraded | potentially sens. | high | potential | potential | moderately pleasing |
| W9 | some | degraded | intact | intact | potentially sens. | high | not appropriate | not appropriate | pleasing |
| W10 | some | degraded | degraded | degraded | potentially sens. | high | potential | provides rec. | moderately pleasing |
| W11 | diverse | intact | degraded | intact | potentially sens. | - | potential | potential | pleasing |
| W12 | diverse | intact | degraded | intact | potentially sens. | - | has educational uses | provides rec. | pleasing |
| W13 | diverse | intact | degraded | intact | potentially sens. | - | potential | provides rec. | pleasing |
| W14 | some | degraded | intact | degraded | potentially sens. | high | not appropriate | potential | pleasing |
| W15 | some | intact | degraded | degraded | potentially sens. | high | has educational uses | potential | pleasing |
| W16 | some | n.a. | intact | degraded | sensitive | little | not appropriate | not appropriate | pleasing |
| W17 | some | n.a. | intact | degraded | sensitive | moderate | not appropriate | not appropriate | moderately pleasing |
| W18 | some | n.a. | degraded | degraded | sensitive | little | not appropriate | not appropriate | pleasing |
| W19 | some | degraded | intact | degraded | potentially sens. | high | not appropriate | not appropriate | not pleasing |
| W20 | some | n.a. | degraded | degraded | potentially sens. | little | not appropriate | not appropriate | pleasing |
| W21 | some | degraded | degraded | degraded | potentially sens. | high | not appropriate | not appropriate | pleasing |

*If the wetland provides diverse wildlife habitat, do not complete the enhancement potential assessment questions.
n.a.=not applicable

## CITY OF STAYTON UGB
## Table 3. LOCALLY SIGNIFICANT WETLANDS (LSW)

| WETLAND UNIT | WETLAND UNIT KEY | SITE NUMBERS | LSW COMMENTS * |
|---|---|---|---|
| W1 | Upper Mill Creek & ODOT Mit. site | M1, M2 | Significant: Intact WQ |
| W2 | confluence of Mill Creek & Lucas Ditch | M3 | Significant: Intact HC |
| W3 | Mill Creek between SMS & Golf Club Rd | M4, MT2, MT3 | Significant: High WH; Intact FH, WQ and HC |
| W4 | south of Golf Ln & north of Mill Creek | M5 | Significant: Intact WQ and HC |
| W5 | forest clumps south of Mill Creek | M6 | Significant: Intact WQ and HC |
| W6 | depressions in ag field south of Mill Creek | M7 | Not Significant; plowed field |
| W7 | swale & depressions in pasture S. of Mill Cr | M8, MT5 | Significant: Intact WQ |
| W8 | golf course ponds | M9 | Not Significant; isolated in golf course |
| W9 | Lucas Ditch & FP east of 1st Avenue | MT1 | Significant: Intact WQ and HC |
| W10 | Mill Creek through Stayton Golf course | MT4 | Significant: Degraded FH connected to Mill Creek |
| W11 | Banks of North Santiam R | NS1 | Significant: High WH; Intact FH and HC |
| W12 | Wilderness Park & east of Water Treatment | NS2, NS3 | Significant: High WH; Intact FH and HC |
| W13 | Banks of North Santiam River | NS4 | Significant: High WH; Intact FH and HC |
| W14 | East of Gehren Island Road | NST1, NST2 | Significant: Intact WQ |
| W15 | Gehren Island Road | NST3 | Significant: Intact FH |
| W16 | SW of E. Santiam/Gehren Island Road | NST4 | Significant: Intact WQ |
| W17 | Parkview mitigation site | NST5 | Significant: Intact WQ; mitigation site |
| W18 | East of Gehren Island Road | NST6 | Not Significant: plowed field |
| W19 | Wilco Farmer's Coop | SD1 | Significant: Intact WQ |
| W20 | SW of Shaff Road / Wilco Road | SD2 | Not Significant: plowed field |
| W21 | SW of Shaff Road / Wilco Road | SD3 | Not Significant: WQ degraded but not w/in 1/4 mi of WQ limited stream |

*** ("high" refers to highest rank in OFWAM functions)**
**WH=Wildlife Habitat; FH=Fish Habitat;**
**WQ=Water Quality; HC=Hydrologic Control**

## Table 4. Riparian Corridor Assessment

| Reach | Water Quality | Flood Management | Thermal Regulation | Wildlife Habitat |
|---|---|---|---|---|
| RMC-1 | High | Medium | Medium | Medium |
| RMC-2 | High | Medium | High | High |
| RMC-3 | Medium | Medium | Medium | Low |
| RST-1 | High | Medium | High | High |
| RST-2 | High | Medium | High | High |
| RST-3 | High | High | High | High |
| RST-4 | Medium | Medium | Low | Low |
| RST-5 | Low | Low | Low | Low |
| RSD-1 | High | Medium | High | High |
| RSD-2 | Low | Low | Low | Low |
| RSD-3 | High | Low | High | High |
| RSD-4 | Medium | Low | Low | Low |
| NSR-1 | High | High | High | High |

# APPENDIX 2

## WETLAND SUMMARY SHEETS

## VEGETATION SPECIES LIST

# CITY OF STAYTON LOCAL WETLANDS INVENTORY

## Introduction to the Wetland Summary Sheets:

The Wetland Summary Sheets summarize the data gathered and analyzed for wetland sites within the 1997 Urban Growth Boundary (UGB) of Stayton. Included is a box of site information with the wetland name, site number, unit number (used for Oregon Freshwater Wetland Assessment Method (OFWAM)), drainage basin, acreage (within the UGB only), dates of field work, location, Township, Range, and Section location, and delineation information. Other items on the summary sheet include a general description, on-site National Wetland Inventory Classification, mapped soils and on-site soils, hydrologic source and description, dominant vegetation, boundary information, wetland functions, and significance. Some of the more abstract items are explained below.

**National Wetlands Inventory (NWI) Classification with water regime modifier and special modifier (after Cowardin, et al., 1979 and Roth, et al., 1993):** 100%PEMCx, for example.

NWI Classification:

POW=Open Water: Areas of open water where there are no emergent, submergent, or floating vegetation.

PEM=Emergent: Erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years, and usually dominated by perennial plants.

PSS=Scrub-Shrub: Woody vegetation less than 6 meters (20 feet) tall

PFO=Forested: Woody vegetation 6 meters (20 feet) tall or taller

Water Regime Modifier:

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

H Permanently Flooded: Water covers the land surface throughout the year in all years. Vegetation is composed of obligate hydrophytes

Special Modifier:

b beaver: Beaver dam present in wetland or stream area.

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

h diked/impounded: Diked: Created or modified by a man-made barrier or dike designed to obstruct the inflow of water.

Impounded: Created or modified by a barrier or dam which purposefully or unintentionally obstructs the outflow of water. Both man-made dams and beaver dams are included (this has been modified: "b" signifies beaver dam).

x excavated: Lies within a basin or channel excavated by man. (This includes a linear channelization of a natural stream channel.)

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

p pasture: planted to 1 species of grass

**Dominant Vegetation:** Refer to the vegetation table in the report (Appendix 2) for common plant names and wetland indicator status.

**Wetland Functions:** As determined by the Oregon Freshwater Wetland Assessment Method (OFWAM). Additional comments are added where appropriate. See Table 2 in Appendix 1.

**Significance:** Refers to the Locally Significant Wetland criteria developed by the Division of State Lands. See Table 3 in Appendix 1.

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | | |
|---|---|---|---|
| **WETLAND:** M1; Mill Creek | **Unit:** W1 | **Acreage:** 1.2 acres | **Field Date:** 7/29/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | | **On-site Assessment** |
| **Location:** Mill Creek between Highway 22 & Cascade Highway (1st Ave.) | | | **Outside City** |
| **T9S R1W Section:** 3 | **Quarter:** SE | | **Delineation:** none |

**General Description:** Mill Creek and associated wetland riparian corridor, ~35' wide. Stream banks are vertical mud banks about 10' deep; no adjacent hillslopes. Most likely ditched historically for agricultural purposes. Stream had low flow in July and was approximately 6" deep; water was clear and visible to mud bottom. Stream is >75% shaded. Well developed canopy is dominated by Pacific ninebark, willow and Oregon ash. There is a wetland mitigation site to the north and construction occurring to the south. Flood debris was caught in vegetation 7' above the stream. Mill creek is considered a headwater stream by ODFW and provides important food and water resources for downstream fish.

**Wetland Classification:** 1.2 acres PSSC

**Mapped Soils:** Waldo SiCL, McAlpin SiCL

**Hydrologic Source and Description:** perennial stream 3-20' wide; seasonal flooding

**Common Vegetation(*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | **Physocarpus capitatus* | **Phalaris arundinacea* |
| *Alnus rubra* | **Salix piperi* | *Stachys cooleyae* |
| | *Salix sitchensis* | |
| | *Spiraea douglasii* | |
| | *Corylus cornuta* | |

**Boundary Information:** Topographic break; vegetation changes from ash, willow and reed canarygrass to thistle

**Wetland Functions:** Wetland unit W1 has intact water quality functions and provides educational opportunities. It provides habitat for some wildlife species and fish habitat is degraded due to channelization. It has potential to provide recreational opportunities.

**Significance:** Locally Significant Resource

1

M1

M2

M2

M2
M2

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | | |
|---|---|---|---|
| **WETLAND:** M2; ODOT mit | **Unit:** W1 | **Acreage:** 10.3 acres | **Field Date:** 7/29/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | | **On-site Assessment** |
| **Location:** SE of Cascade Highway/Highway 22 | | | **Outside City** |
| **T9S R1W Section:** 3 **Quarter:** SE | | | **Delineation:** none |

**General Description:** Unnamed perennial stream (2' wide, 2" deep) flows into the NW corner of the mitigation site (ODSL #RF 9125). It is mostly shaded by emergent and scrub-shrub vegetation along banks (15-20' wide). Vegetation is dominated by spirea, small-fruited bulrush, creeping spikerush, lowland cudweed and tapered rush. The mitigation site has shallow pondings and emergent areas surrounded by redtop, perennial ryegrass, and sweet vernalgrass. Pacific willow recruitment is high. Outflow is somewhat restricted before entering Mill Creek.

**Wetland Classification:** 9.8 acres PEMCx, 0.5 acre PEMC

**Mapped Soils / On-site Soils:** Waldo SiCL / 10YR 5/1 w/7.5YR 4/6 mottles below 6"

**Hydrologic Source and Description:** Seasonal stream (2' wide) enters site in NW corner. Water floods seasonally from Mill Creek on the SE end. Water leaves site and enters Mill Creek in the southwest corner.

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Salix lasiandra* | **Spiraea douglasii* | **Scirpus microcarpus* |
| | *Rubus laciniatus* | **Eleocharis palustris* |
| | *Rosa sp.* | **Juncus acuminatus* |
| | | **Gnaphalium palustre* |
| | | *Carex obnupta* |
| | | *Eleocharis ovata* |
| | | *Echinochloa crusgalli* |
| | | *Typha latifolia* |

**Boundary Information:** Topographic break; vegetation changes to perennial ryegrass and sweet vernalgrass

**Wetland Functions:** Wetland unit W1 has intact water quality functions and provides educational opportunities. It provides habitat for some wildlife species and fish habitat is degraded due to channelization. It has potential to provide passive recreational opportunities. Functions will improve as vegetation matures.

**Significance:** Wetland mitigation site; Locally Significant Resource

2 W2

M3

M3



M3

M3

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** M3; Mill Cr. **Unit:** W2 | **Acreage:** 34.6 acres | **Field Date:** 7/29/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** east & west of Oakmont Rd. and west of Cascade Hwy. (1st Ave.) | | **Outside City** |
| **T9S R1W Section:** 3 **Quarter:** SW | | **Delineation:** none |

**General Description:** Broad floodplain of Mill Creek and seasonal tributary to Mill Creek (Lucas Ditch). Vegetation is dominated by reed canarygrass with pockets of sedge, willow, and spirea. Abrupt topographic break and vegetation change to the north (oak, grass) and holly orchard, grass field, and fill to the south. Mill Creek is approximately 25' wide; channel is not well shaded on west end except ~10' margins by reed canarygrass. Adjacent land uses include agricultural and rural residential. No access was allowed in pasture adjacent to Cascade Highway. 2 excavated ponds near Oakmont Rd.

**Wetland Classification:** 0.4 acre POWx, 19 acres PEMC, 15.2 acres PEMCp

**Mapped Soils / On-site Soils:** Waldo SiCL / N2/0 w/10YR 5/1 mottles from 4-11"; oxidized root channels, (sampled on west end; no access to pasture on east half of site)

**Hydrologic Source and Description:** Two streams provide water to the site. The northern stream (Mill Cr.) is ~25' wide. The southern tributary is ~10' wide. The streams seasonally flood the wetland. Precipitation also collects in this basin.

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | **Spiraea douglasii* | ***Phalaris arundinacea* |
| *Populus trichocarpa* | **Salix sp.* | *Carex obnupta* |
| *Alnus rubra* | *Salix sitchensis* | **Carex amplifolia* |
| | *Crataegus douglasii* | *Carex pachystachya* |
| | *Rosa sp.* | *Carex vesicaria* |
| | *Cornus stolonifera* | *Lupinus polyphyllus* |
| | | *Juncus effusus* |
| | | *Mentha spicata* |

**Boundary Information:** Distinct topographic break; vegetation changes from reed canarygrass to oak, fir, holly orchard with tall fescue, blackberry, and Scot's broom

**Wetland Functions:** Wetland unit W2 has intact water quality and hydrologic control functions. It provides habitat for some wildlife species and fish habitat is degraded due to channelization. Educational and recreational uses are inappropriate.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** M4 **Unit:** W3 | **Acreage:** 19.4 acres | **Field Date:** 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** north of Stayton Middle School; N of Shaff Rd. & S of Hwy 22 | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NE | | **Delineation:** none |

**General Description:** Extensive multi-layered ash canopy north of school along Mill Creek. Difficult to map due to forest cover. Unmapped trail system throughout forest is used by the public. Large size and moderate interspersion create high wildlife habitat values. Perennial stream is ~15' wide and well-shaded with diverse riparian canopy. The u-shaped stream has rock to cobble substrate. The riparian corridor is broad to the northeast grading into a Douglas fir/big leaf maple upland forest. Large woody debris is common. Reed canarygrass dominates the understory. Blackberry is common along trails. Flood debris is 4-6' high in trees along stream. Stream continues as a palustrine forest west to Golf Course Road. Mill Creek is considered a headwater stream by ODFW and provides important food and water resources for downstream fish.

**Wetland Classification:** 19.4 acres PFOC

**Mapped Soils / On-site Soils:** Waldo SiCL, Clackamas gravelly loam / 10YR 3/1 w/ 10YR 4/6 & 6/6 mottles from 6-13"; oxidized root channels, gley

**Hydrologic Source and Description:** perennial stream, precipitation, flooding, groundwater

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | **Spiraea douglasii* | **Ranunculus repens* |
| *Alnus rubra* | **Salix piperi* | **Phalaris arundinacea* |
| *Salix sp.* | *Cornus stolonifera* | **Carex obnupta* |
| | *Lonicera involucrata* | *Myosotis laxa* |
| | *Rhamnus purshiana* | *Ranunculus sp.* |
| | *Acer circinatum* | *Eleocharis sp.* |

**Boundary Information:** wetland vegetation changes to Douglas fir, big-leaf maple, red alder, vine maple, and sword fern

**Wetland Functions:** Wetland unit W3 provides diverse wildlife habitat, intact fish habitat, water quality, and hydrologic control functions and educational and recreational uses.

**Significance:** Locally Significant Resource; Prime site for educational and passive recreational uses.

M4 ↑

←M5

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** M5 **Unit:** W4 | **Acreage:** 6.4 acres | **Field Date:** 5/21/98 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** ag land north of Mill Creek & south of Golf Lane | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** N | | **Delineation:** none |

**General Description:** Emergent agricultural land located approximately 50 feet from Mill Creek; portions used for horse pasture. Seasonal pondings. Vegetation is dominated by water foxtail and creeping buttercup.

**Wetland Classification:** 3.6 acres PEMCf, 2.8 PEMCp

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL, Salkum SiCL / 10YR 3/1 w/ 10YR 4/6 mottles

**Hydrologic Source and Description:** precipitation, perched water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | **Alopecurus geniculatus* |
| | | **Ranunculus repens* |
| | | *Prunella vulgare* |
| | | *Mentha pullegium* |

**Boundary Information:** Slight topographic break; vegetation changes to pasture grasses and self-heal

**Wetland Functions:** Wetland unit W4 provides intact water quality and hydrologic control functions. It provides habitat for some wildlife species. Fish habitat is not applicable since the wetland is located approximately 50 feet from the stream. Educational and recreational uses are inappropriate.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** M6 **Unit:** W5 | **Acreage:** 9.8 acres | **Field Date:** 5/21/98 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On- & Off-site Assessment** |
| **Location:** 3 ash forest clumps southeast of golf course | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NE & NW | | **Delineation:** none |

**General Description:** M6 consists of 3 clumps of ash forest habitat. Forest clumps on properties without access were mapped as all wetland although there may be uplands included. Wetland understory is dominated by hare's foot sedge, camas, and water foxtail; it also includes lady fern and creeping buttercup. Uplands adjacent to the forest clumps include cultivated agricultural fields, pasture land, oak forest and developed land.

**Wetland Classification:** 9.8 acres PFOC

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL, Clackamas

**Hydrologic Source and Description:** precipitation, perched water

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | *Rosa* species | **Camas quamash* |
| | *Physocarpos capitatus* | **Carex leporina* |
| | *Symphoricarpos albus* | **Eleocharis* species |
| | | *Montia sibirica* |
| | | *Ranunculus repens* |
| | | *Athyrium filix-femina* |

**Boundary Information:** Wet ash forest changes to Oregon white oak, snowberry, fringecup and Himalayan blackberry, cultivated ryegrass field or developed areas.

**Wetland Functions:** Wetland unit W5 provides intact water quality and hydrologic control functions. It provides habitat for some wildlife species. Fish habitat is not applicable. Educational and recreational uses are inappropriate.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | | |
|---|---|---|---|
| **WETLAND:** M7 | **Unit:** W6 | **Acreage:** 4.5 acres | **Field Date:** 7/29/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | | **Off-site Assessment** |
| **Location:** ag land south of Mill Creek & east of Golf Club Road | | | **Outside City** |
| **T9S R1W Section:** 4 | **Quarter:** NE | | **Delineation:** none |

**General Description:** Emergent depressions in agricultural field; Seasonal pondings evident from 1996 flood aerial photos. Wetland boundaries most likely are mapped larger than they actually are.

**Wetland Classification:** 4.5 acres PEMCf

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL

**Hydrologic Source and Description:** precipitation, perched water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|

**Boundary Information:** Slight topographic break; vegetation changes agricultural grasses

**Wetland Functions:** Wetland functions of Wetland unit W6 are degraded due to annual plowing. It provides habitat for some wildlife species. Fish habitat is not applicable. Educational and recreational uses are inappropriate.

**Significance:** Not a Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** M8 **Unit:** W7 | **Acreage:** 9.8 acres | **Field Date:** 7/29/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** ag land south of Mill Creek & east of Golf Club Road | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NW | | **Delineation:** none |

**General Description:** Vernal depressions in grazed pasture with diverse vegetation and a variety of native species. Depressions drain towards the northwest through an emergent swale, a tributary to Mill Creek. Field planted with pasture mix and actively grazed by cattle. Access allowed only seasonally due to ornery bulls. Southern field farmed.

**Wetland Classification:** 5.3 acres PEMCp; 4.5 acres PEMCf; partly drained as well.

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL, Clackamas / 10YR 2/1-2/2, hard-packed (in pasture); 10YR 2/2 gravelly in emergent swale.

**Hydrologic Source and Description:** precipitation, perched water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | **Gnaphalium palustre* |
| | | **Carex unilateralis* |
| | | **Alopecurus geniculatus* |
| | | *Eleocharis ovata* |
| | | *Panicum sp.* |
| | | *Veronica peregrina* |
| | | *Plagiobothrys scouleri* |
| | | *Rorippa curvisiliqua* |
| | | *Polygonum sp.* |
| | | *Echinochloa crusgalli* |

**Boundary Information:** Slight topographic break in field and along swale; vegetation changes to tall fescue and orchard grass in field and meadow foxtail and vetch along the swale.

**Wetland Functions:** Wetland unit W7 provides intact water quality functions but hydrologic control functions are degraded. It provides habitat for some wildlife species and fish habitat is degraded. Educational and recreational uses are inappropriate.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** M9 **Unit:** W8 | **Acreage:** 1 acres | Field Date: 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | On-site Assessment |
| **Location:** east of Golf Club Road in Golf Course | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NW | | **Delineation:** none |

**General Description:** M9 includes 2 excavated golf course ponds. The ponds have an emergent fringe consisting of reed canarygrass and soft rush. The north end of the west pond is dominated by cattail and reed canarygrass.

**Wetland Classification:** 1 acre POWx

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL

**Hydrologic Source and Description:** precipitation, perched water table

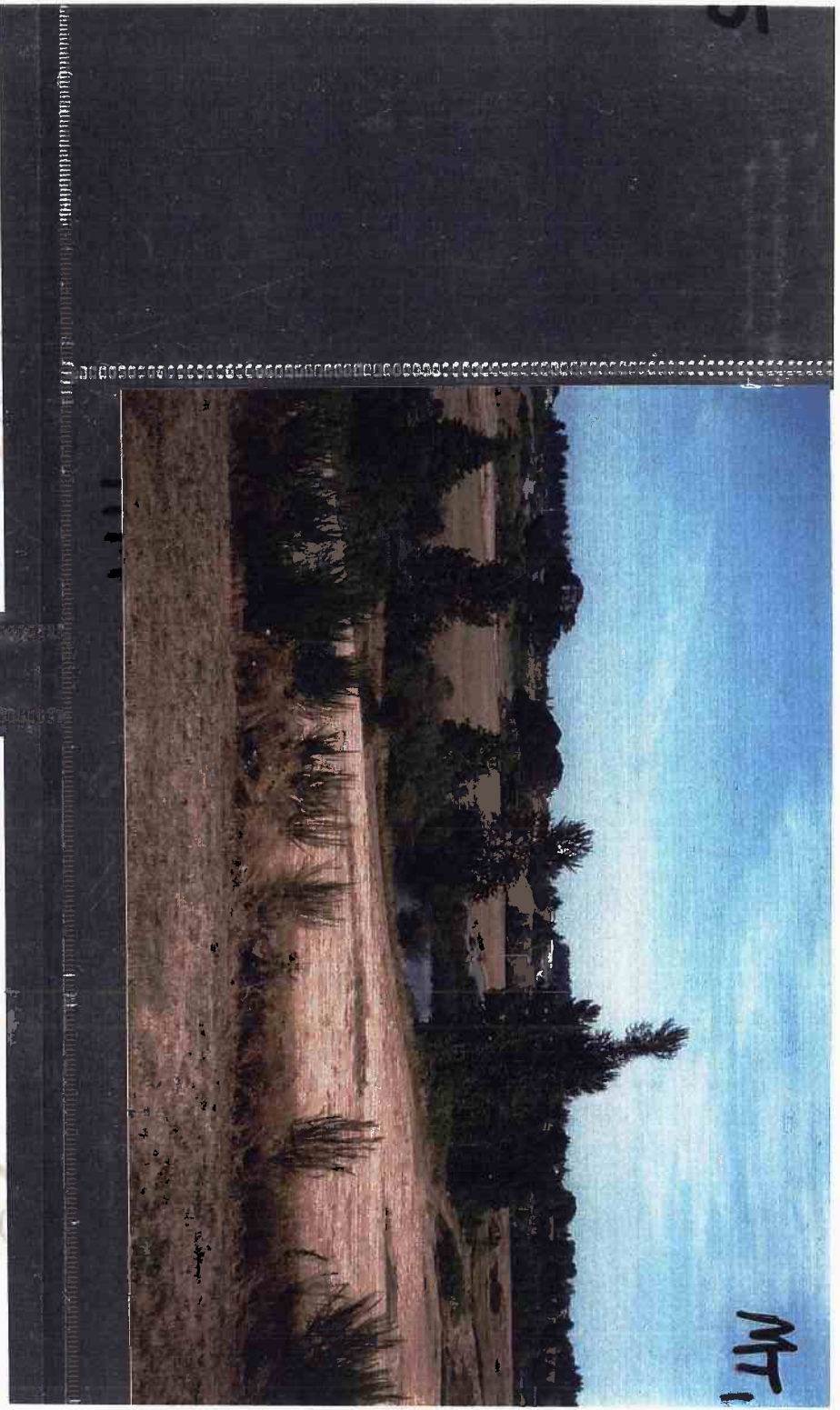
**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | **Phalaris arundinacea* |
| | | **Juncus effusus* |
| | | **Typha latifolia* |

**Boundary Information:** well-defined topographic break; vegetation changes to mowed golf course grasses

**Wetland Functions:** Wetland functions of Wetland unit W8 are degraded due to golf course management practices.

**Significance:** Not a Significant Resource

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MT1


MT1


MT1

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | | |
|---|---|---|---|
| **WETLAND:** MT1; S tributary | **Unit:** W9 | **Acreage:** 19.2 acres | **Field Date:** 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | | **Off-site Assessment** |
| **Location:** between Highway 22 and Cascade Highway (1st Ave.) | | | **In City** |
| **T9S R1W Section:** 3 **Quarter:** SE | | | **Delineation:** Det 96-108 |

**General Description:** Lucas Ditch begins in the northeast corner of the study area in Boulders Mobile Home Park. The stream is ~5' wide with wetland vegetation to 15' wide. The canopy through the trailer park reach is dominated by red alder. On the west end of the trailer park there is an excavated pond with restricted outflow. Vegetation along the stream changes to Himalayan blackberry with scattered willow and cottonwood to the west. The stream flows through agricultural fields. On the west end between 1st Ave. and 28th Ave., there is a manmade, springfed pond with a wetland fringe of black cottonwood, slough sedge, reed canarygrass and soft rush, and a large emergent wetland north and south of the stream. Vegetation in the emergent area is dominated by creeping buttercup, soft rush and bentgrass (Crook 1995).

**Wetland Classification:** 1.2 acre POWHx, 15.6 acres PEMC, 0.3 acres PEMCf, 1.1 acres PEMCx, 1.0 acre PFOC

**Mapped Soils / On-site Soils:** Waldo SiCL, McAlpin / 10YR 3/2 & 3/1 w/7.5YR 3/4 mottles (Crook 1995)

**Hydrologic Source and Description:** Precipitation, perched water. Perennial tributary to Mill Creek seasonally floods wetlands. Precipitation collects on poorly drained soils.

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Alnus rubra* | *Salix sp.* | *Carex obnupta* |
| *Populus trichocarpa* | | *Agrostis alba* |
| *Salix sp.* | | *Juncus effusus* |
| | | *Ranunculus repens* |
| | | *Phalaris arundinacea* |

**Boundary Information:** Well defined topographic break on east end. On the west end wetland vegetation changes to pasture grasses (bentgrass, orchard grass, tall fescue).

**Wetland Functions:** Wetland unit 9 provides intact water quality and hydrologic control functions. It provides habitat for some wildlife species and fish habitat is degraded by channelization. Educational and recreational uses are inappropriate at this time.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** MT2 **Unit:** W3 | **Acreage:** 0.2 acre | **Field Date:** 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **Off-site Assessment** |
| **Location:** SE of Golf Lane | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NE | | **Delineation:** none |

**General Description:** MT2 was observed from the roadway. It is a tributary to Mill Creek that is culverted beneath Highway 22. On the very north end, it is a narrow 3-5 foot channel with bentgrass and softrush. It quickly becomes a PFO which is not visible from the road.

**Wetland Classification:** 0.2 acre PFOC

**Mapped Soils / On-site Soils:** Salkum SiCL

**Hydrologic Source and Description:** Seasonal stream

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Fraxinus latifolia* | | *Juncus effusus* |
| | | *Agrostis sp.* |

**Boundary Information:** Upland vegetation changes to tall fescue, Douglas fir, lodgepole pine.

**Wetland Functions:** MT2 has been evaluated with Wetland unit W3. Wetland unit W3 provides diverse wildlife habitat, intact fish habitat, water quality, and hydrologic control functions and educational and recreational uses.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** MT2a & MT2b | **Unit:** W6 **Acreage:** 0.24 acre | **Field Date:** 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **Off-site Assessment** |
| **Location:** 12376 Golf Lane, east pond (west pond on 12324) | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NE | | **Delineation:** none |

**General Description:** MT2a & MT2b were observed from the roadway. MT2a includes two excavated ponds. The ponds have limited tree/shrub cover but appear to contain a variety of emergent vegetation including simplestem bur-reed, mannagrass, and leafy beggars-tick. Ponds are most likely connected to the stream through culverts. MT2b is a small emergent wetland; vegetation is dominated by a variety of grasses. These wetlands are too small to include in the inventory (<0.5 acre).

**Wetland Classification:** 0.2 acre POWHx, 0.04 acre PEMC

**Mapped Soils / On-site Soils:** Salkum SiCL

**Hydrologic Source and Description:** Seasonal stream, precipitation.

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | **Sparganium emersum* |
| | | *Glyceria elata* |
| | | *Juncus effusus* |
| | | *Agrostis sp.* |
| | | *Bidens sp.* |

**Boundary Information:** Upland vegetation changes to tall fescue, Douglas fir, lodgepole pine and arborvitae.

**Wetland Functions:** too small to evaluate

connected to MT2B

MT3

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** MT3 **Unit:** W3 | **Acreage:** 0.55 acre | **Field Date:** 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** golf course SE of Golf Club Road/Highway 22 | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NE | | **Delineation:** none |

**General Description:** MT3 is a forested depression area on the east end of the golf course that drains into Mill Creek.

**Wetland Classification:** 0.55 acre PFOC

**Mapped Soils / On-site Soils:** Salem gravelly SiL

**Hydrologic Source and Description:** precipitation, perched water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | **Spiraea douglasii* | **Carex obnupta* |

**Boundary Information:** Vegetation changes to mowed golf course

**Wetland Functions:** MT3 is part of Wetland unit W3. Wetland unit W3 provides diverse wildlife habitat, intact fish habitat, water quality, and hydrologic control functions and educational and recreational uses.

**Significance:** Locally Significant Resource

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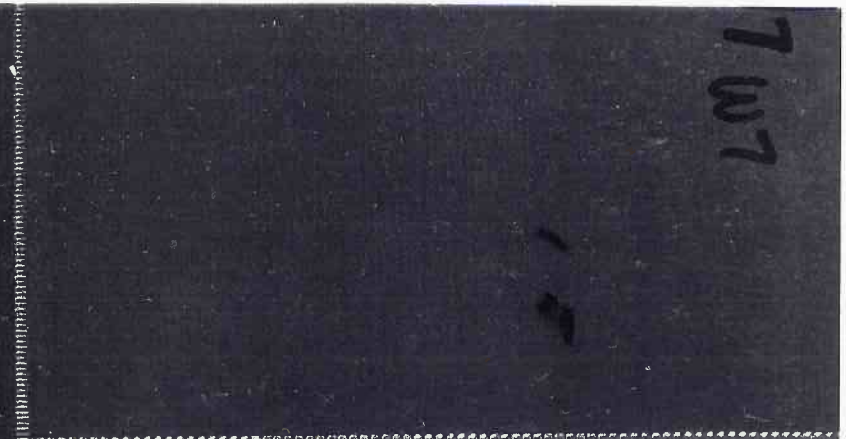
3 mT4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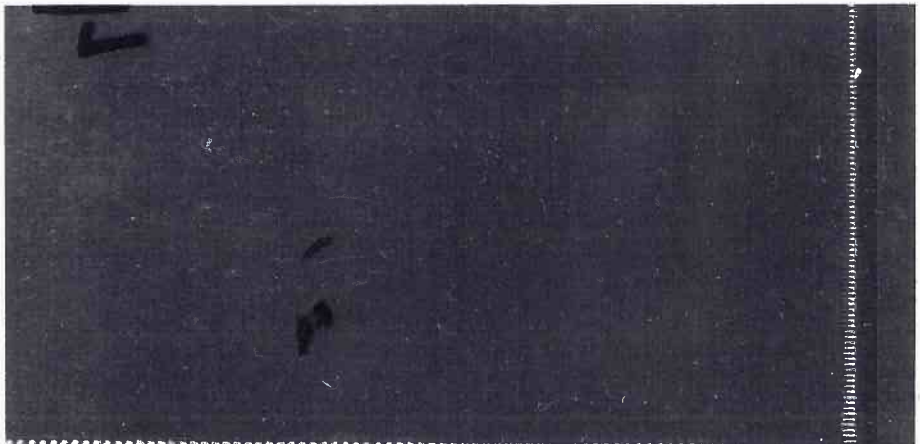

MT4

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** MT4 **Unit:** W10 | **Acreage:** 1.3 acre | **Field Date:** 7/30/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** golf course SE of Golf Club Road/Highway 22 | | **Outside City** |
| **T8S R1W Section:** 33 **Quarter:** SW | | **Delineation:** none |

**General Description:** MT4 is a channelized stream that flows through the golf course. Banks are mowed to the water's edge. The stream flows through an irrigation pond on the west end. A variety of emergents on pond banks and in channel including bur-reed, spikerush, birdsfoot-trefoil, soft rush and reed canarygrass. Channel is typically open with limited shading from canopy on east end near highway.

**Wetland Classification:** 0.3 acre POWh, 1.0 acre PEMC

**Mapped Soils / On-site Soils:** Waldo SiCL, Courtney gravelly SiCL / 10YR 4/1 w/ 7.5YR 5/6 mottles from 4-10"

**Hydrologic Source and Description:** Perennial stream; approximately 10' wide. Seasonally floods banks.

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Fraxinus latifolia* | | **Sparganium emersum* |
| *Populus trichocarpa* | | **Eleocharis sp.* |
| | | **Phalaris arundinacea* |
| | | **Lotus corniculatus* |
| | | *Myosotis laxa* |
| | | *Juncus acuminatus* |
| | | **Juncus effusus* |

**Boundary Information:** Vegetation changes to mowed golf course

**Wetland Functions:** Wetland unit W10 provides recreational uses and has the potential to provide educational uses. Fish habitat and water quality and hydrologic control functions are degraded. W10 provides habitat for some wildlife species.

**Significance:** Locally Significant Resource; degraded fish habitat but connected to Mill Creek

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** MT5 **Unit:** W7 | **Acreage:** 0.8 acre | **Field Date:** 5/21/98 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** Mill Creek | **On-site Assessment** |
| **Location:** south of and west end of golf course; E of Golf Club Road | | **Outside City** |
| **T9S R1W Section:** 4 **Quarter:** NW | | **Delineation:** none |

**General Description:** MT5 is a swale that drains surface water between an agricultural field and Mill Creek. Vegetation is dominated by grasses, rushes and sedges south of the golf course. In the golf course vegetation is mowed.

**Wetland Classification:** 0.8 acre PEMC

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL / 10YR 2/2

**Hydrologic Source and Description:** surface water. Seasonally flooded

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | **Carex unilateralis* |
| | | **Alopecurus pratensis* |
| | | *Plagiobothrys figuratus* |
| | | *Myosotis laxa* |
| | | *Carex densa* |

**Boundary Information:** Vegetation changes to mowed golf course grasses and vetch and weedy upland forbs.

**Wetland Functions:** Wetland unit W7 provides intact water quality functions but hydrologic control functions are degraded. It provides habitat for some wildlife species and fish habitat is degraded. Educational and recreational uses are inappropriate.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NS1 **Unit:** W11 | **Acreage:** 13.5 acres | **Field Date:** 7/30 & 9/19/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **On-site Assessment** |
| **Location:** east and west of Gehren Island Road bridge | | **Outside City** |
| **T9S R1W Section:** 11 **Quarter:** SE | | **Delineation:** none |

**General Description:** NS1 is a forested wetland located on the banks of the North Santiam River. Vegetation is dominated by red alder and willow with an understory of reed canarygrass and soft rush. The broad western half located south of NST3 has a narrow shallow channel on the north end separating the site from adjacent lands to the north. There was no access available for the eastern portion of the site.

**Wetland Classification:** 13.5 acres PFOC

**Mapped Soils / On-site Soils:** Alluvial lands

**Hydrologic Source and Description:** North Santiam River seasonally floods NS1

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | **Salix* species | **Juncus effusus* |
| | | **Phalaris arundinacea* |

**Boundary Information:** Topographic break; vegetation changes to Douglas fir, big leaf maple, snowberry, Himalayan blackberry and agricultural field

**Wetland Functions:** Wetland unit W11 provides diverse wildlife habitat and intact fish habitat and hydrologic control functions. Water quality functions are degraded. Has potential to provide educational and recreational opportunities.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NS2 **Unit:** W12 | **Acreage:** 29.8 wet, 18 mosaic | **Field Date:** 9/19/97 |
| **Drainage Basin:** mid-Willamette | **Sub-Basin:** North Santiam River | **On-site Assessment** |
| **Location:** Wilderness Park; SE of Marion St./ 7th Avenue | | **Inside City** |
| **T9S R1W Section:** 10 **Quarter:** SE | | **Delineation:** none |

**General Description:** NS2, Wilderness Park, is a floodplain forest that is a mosaic of wetlands and uplands. Wetlands are dominated by red alder, red elderberry, Pacific ninebark, willow, slough sedge and lady fern with black cottonwood, western red cedar, twinberry, skunk cabbage, bittersweet nightshade and stinging nettles. Uplands are dominated by Douglas fir, western hemlock, big leaf maple, Himalayan blackberry, Pacific blackberry, Indian plum, snowberry, English ivy and sword fern. Large woody debris is abundant. The park contains numerous trails that are well-used by the public.

**Wetland Classification:** 11.3 acres POWHx, 16 acres PFOC, 18 acres PFOC mosaic (5-10% wet)

**Mapped Soils / On-site Soils:** Alluvial Lands; 10YR 2/1, ORC, gravelly

**Hydrologic Source and Description:** North Santiam River, high water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | **Physocarpus capitatus* | **Athyrium filix-femina* |
| | **Sambucus racemosa* | **Carex obnupta* |
| | *Cornus stolonifera* | *Carex deweyana* |
| | | *Lysichitum americanum* |
| | | *Montia sibirica* |
| | | *Solanum dulcamara* |

**Boundary Information:** Wetland forest changes to upland forest with Douglas fir and big leaf maple canopy and Himalayan blackberry, Indian plum, sword fern, snowberry, Dewey's sedge and English ivy dominating understory.

**Wetland Functions:** Wetland unit W12 provides diverse wildlife habitat, intact fish habitat and hydrologic control functions, and educational and recreational uses. Water quality functions are degraded.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NS2a; Wilderness Park **Unit:** W12 **Acreage:** 2.5 acres | | **Field Date:** 6/17/97 |
| **Drainage Basin:** middle Willamette **Sub-Basin:** N. Santiam River | | **On-site Assessment** |
| **Location:** NE corner of Wilderness Park | | **Outside City** |
| **T9S R1W Section:** 11 **Quarter:** SW | | **Delineation:** none |

**General Description:** NS2a is a large shallow pond located between the Salem Water Ditch and the North Santiam River in Wilderness Park. The pond is estimated to be 6 inches to 3 feet deep with aquatic vegetation (parrot's feather, elodea); emergent vegetation is sparse and generally limited to pond margins. The edge of the pond contains dense scrub-shrub and trees. Wetland vegetation is dominated by red alder, Douglas spirea, Pacific ninebark, vine maple, twinberry, soft rush, slough sedge, spring water-starwort and slough sedge. Large woody debris is abundant in the pond and used by turtles. The park contains numerous public trails; a foot bridge crosses the pond's connection to the Salem Water Ditch.

**Wetland Classification:** 2.5 acres PEMH

**Mapped Soils / On-site Soils:** Alluvial Lands

**Hydrologic Source and Description:** North Santiam River, Salem Water Ditch, high water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Alnus rubra* | *Acer circinatum* | *Callitriche verna* |
| | *Physocarpus capitatus* | *Carex obnupta* |
| | *Spiraea douglasii* | *Juncus effusus* |
| | *Lonicera involucrata* | *Myosotis laxa* |
| | | *Polygonum species* |

**Boundary Information:** topographic break; surrounded by wetlands and wetland/upland forest mosaic

**Wetland Functions:** Wetland unit W12 provides diverse wildlife habitat, intact fish habitat and hydrologic control functions, and educational and recreational uses. Water quality functions are degraded.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | |
|---|---|
| **WETLAND:** NS3 **Unit:** W12 **Acreage:** 32.5 acres | **Field Date:** 9/19/97 |
| **Drainage Basin:** mid-Willamette **Sub-Basin:** North Santiam | **On- & Off-site Assessment** |
| **Location:** E. of Water Treatment Plant; S. of Wilderness Park | **Outside City** |
| **T9S R1W Section:** 15 **Quarter:** NE | **Delineation:** none |

**General Description:** NS3 is a large, diverse floodplain wetland adjacent to the North Santiam River. Historically, a portion of the site was used for milling lumber; created ponds and channels have become naturalized. The western portion of the site is owned by the city; the eastern portion is private and access was denied. Vegetation in the western end of the site is dominated by red alder, Pacific willow, slough sedge, soft rush and reed canarygrass. The eastern end of the site most likely has similar vegetation and also has been partially filled. The wetland mosaics are difficult to map due to canopy cover of the forested wetland mosaic and lack of access to emergent wetland mosaic.

**Wetland Classification:** 0.9 acre POWHx, 8.2 acres PEMC, 13.8 acres PFOC, 5.5 acres mosaic (5-10% wet), 4.1 acres fill

**Mapped Soils / On-site Soils:** Alluvial Lands; rocky.

**Hydrologic Source and Description:** North Santiam River; high water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | **Salix lasiandra* | **Carex obnupta* |
| *Populus trichocarpa* [*balsa mifera*] | *Rubus discolor* | **Juncus effusus* |
| | *Spiraea douglasii* | **Phalaris arundinacea* |
| *Salix lasiandra* | | *Sparganium emersum* |

**Boundary Information:** slight topographic break and vegetation changes to dense Himalayan blackberry with Scot's broom and black cottonwood; abrupt topographic break at fill.

**Wetland Functions:** Wetland unit W12 provides diverse wildlife habitat, intact fish habitat and hydrologic control functions, and educational and recreational uses. Water quality functions are degraded.

**Significance:** Locally Significant Resource

N53 (W9)

NS4


NS4 (W10)


NS4 (W10)

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NS4 **Unit:** W13 | **Acreage:** 13.4 acres | **Field Date**: 9/19/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **On-site Assessment** |
| **Location:** South and SW of Water Treatment Plant | | **Inside City** |
| **T9S R1W Section:** 15 **Quarter:** NE, NW | | **Delineation:** none |

**General Description:** NS4 includes a forested and scrub-shrub wetland located on the north banks of the North Santiam River on both sides of 1st Avenue. East of 1st Avenue vegetation includes a forested swale leading to a depression area just east of first Avenue; vegetation is dominated by black cottonwood, willow and reed canarygrass. It is difficult to map on the aerial due to canopy cover and consequently the wetland boundary is less reliable. West of 1st Avenue is dense scrub-shrub dominated by willow and Oregon ash.

**Wetland Classification:** 7.1 acres PFOC, 6.3 acres PSSC

**Mapped Soils / On-site Soils:** Alluvial Lands

**Hydrologic Source and Description:** North Santiam River, seasonal flooding

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Fraxinus latifolia* | *Salix lasiandra* | *Phalaris arundinacea* |
| *Populus trichocarpa* | | |
| *Salix* species | | |

**Boundary Information:** topographic break; vegetation changes to Himalayan blackberry and/or agricultural field

**Wetland Functions:** Wetland unit W13 provides diverse wildlife habitat, intact fish habitat and hydrologic control functions, and recreational uses. It has the potential to provide educational opportunities. Water quality functions are degraded.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NST1, NST2 | **Unit:** W14 **Acreage:** 2.7 acres | **Field Date:** 7/30 & 9/19/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **Off-site Assessment** |
| **Location:** SW of East Santiam St./Minten Road | | **Outside City** |
| **T9S R1W Section:** 12 | **Quarter:** SW | **Delineation:** none |

**General Description:** NST1 is the mouth of a small tributary stream of the North Santiam River located in the SE corner of the UGB; its too small for this inventory but is mapped and included in Unit W14. NST2 is another channelized tributary to the North Santiam River. The channel is approximately 20 feet wide and is lined with trees and shrubs. It is surrounded by a bentgrass agricultural field. No access was allowed to this site. It is described and mapped based on aerial photo interpretation.

**Wetland Classification:** 2.7 acres PFOC

**Mapped Soils / On-site Soils:** Cloquato SiL, Newberg fine sandy loam

**Hydrologic Source and Description:** seasonal (?) stream that drains to the N. Santiam; North Santiam River might flood seasonally

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Alnus rubra* | *Rubus discolor* | |
| *Fraxinus latifolia* | | |
| *Populus trichocarpa* | | |
| *Salix* species | | |

**Boundary Information:** Topographic break; vegetation changes to bentgrass field

**Wetland Functions:** Wetland unit W14 provides intact water quality functions. Wildlife habitat, fish habitat and hydrological control functions are degraded. Has potential to provide recreational opportunities at its confluence with the North Santiam River. It is not appropriate for educational uses.

**Significance:** Locally Significant Resource

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**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NST3 **Unit:** W15 | **Acreage:** 1.0 acre | **Field Date:** 7/30 & 9/19/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **On-site Assessment** |
| **Location:** Gehren Island Road | | **Outside City** |
| **T9S R1W Section:** 11 **Quarter:** SE | | **Delineation:** none |

**General Description:** NST3 is a swale that drains into the North Santiam River. East of Gehren Island Road NST3 is an emergent area; vegetation (95% cover) is dominated by mannagrass, burreed, bulrush and bentgrass. The emergent area is connected to a forested wetland west of the road through an 18" concrete culvert. The forested wetland appears to be a remnant slough channel. The channel is approximately 8 feet wide with two foot vertical banks. The high water driftline is approximately 3 feet above the channel. The channel was dry in September with pockets of water (0-2 inches deep). The channel contains 20% emergent vegetation and 80% bare soil due to the dense canopy. Emergent vegetation is dominated by water parsley. Wetland forest vegetation lines the banks of the channel and is dominated by Oregon ash.

**Wetland Classification:** 0.6 acre PEMC, 0.4 acre PFOC

**Mapped Soils / On-site Soils:** Camas gravelly SL, Cloquato SiL, AD alluvial lands / 10YR 3/1 silt.

**Hydrologic Source and Description:** intermittent stream that drains to the N. Santiam; North Santiam River floods seasonally

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | | **Agrostis sp.* |
| | | **Glyceria sp.* |
| | | **Oenanthe sarmentosa* |
| | | **Scirpus sp.* |
| | | **Sparganium emersum* |

**Boundary Information:** Topographic break; vegetation changes to Douglas fir, big leaf maple, beaked hazelnut, snowberry, trailing blackberry and sword fern

**Wetland Functions:** Wetland unit W15 provides intact fish habitat and habitat for some wildlife species. Hydrologic control and water quality functions are degraded. Has potential to provide educational and recreational opportunities.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NST4 **Unit:** W16 | **Acreage:** 1.4 acres | **Field Date:** 11/5/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **On-site Assessment** |
| **Location:** In agricultural field SW of E. Santiam St./Gehren Island Rd. | | **Outside City** |
| **T9S R1W Section:** 11 | **Quarter:** SE | **Delineation:** none |

**General Description:** NST4 is a linear depression area surrounded by a perennial ryegrass field. Other portions of the field have been tiled but this area was too large and rocky an area to tile according to the farmer. Vegetation is dominated by reed canarygrass with pockets of Douglas spirea and wild rose.

**Wetland Classification:** 1.4 acres PEMC

**Mapped Soils / On-site Soils:** Camas gravelly SL, Cloquato SiL

**Hydrologic Source and Description:** precipitation; ponds in depression area

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | *Rosa* species | **Phalaris arundinacea* |
| | *Spiraea douglasii* | |

**Boundary Information:** Distinct topographic break; vegetation changes to perennial ryegrass field and a few Oregon white oaks.

**Wetland Functions:** Wetland unit W16 provides intact water quality functions and habitat for some wildlife species. Hydrologic control functions are degraded. Fish habitat is not applicable and educational and recreational uses are not appropriate.

**Significance:** Locally Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NST5; Parkview | **Unit:** W17 **Acreage:** 0.5 acre | **Field Date:** 11/5/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **On-site Assessment** |
| **Location:** NW of E. Virginia St. / 15th Avenue | | **Outside City** |
| **T9S R1W Section:** 11 | **Quarter:** SW | **Delineation:** none |

**General Description:** NST5 is a mitigation site (FP9992). The canopy is dominated by black cottonwood and Oregon ash. Beneath the canopy is a 3 foot wide emergent swale. Vegetation in the swale is dominated by reed canarygrass, creeping buttercup, manna-grass, smartweed and water foxtail. Stormwater is directed into the swale.

**Wetland Classification:** 0.5ac PFOC

**Mapped Soils / On-site Soils:** Camas gravelly SL, Cloquato SiL

**Hydrologic Source and Description:** precipitation; stormwater runoff

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| *Fraxinus latifolia* | | *Alopecurus geniculatus* |
| *Populus trichocarpa* | | *Glyceria species* |
| | | *Phalaris arundinacea* |
| | | *Polygonum species* |
| | | *Ranunculus repens* |

**Boundary Information:** Distinct topographic break; vegetation changes to landscaped and weedy backyards

**Wetland Functions:** Wetland unit W17 provides intact water quality functions and provides habitat for some wildlife species. Hydrologic control functions are degraded. Fish habitat is not applicable and educational and recreational uses are not appropriate.

**Significance:** Wetland mitigation site; Locally Significant Wetland

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** NST6 **Unit:** W18 | **Acreage:** 7.1 acres | **Field Date:** 7/30 & 9/19/97 |
| **Drainage Basin:** middle Willamette | **Sub-Basin:** N. Santiam River | **Off-site Assessment** |
| **Location:** SW of East Santiam St./Minten Road | | **Outside City** |
| **T9S R1W Section:** 12 | **Quarter:** SW | **Delineation:** none |

**General Description:** NST6 includes depressions in a bentgrass agricultural field. No access was allowed to this site. Mapping is based on 1996 flood aerials; the mapped wetland boundary is most likely larger than actual conditions.

**Wetland Classification:** 7.1 acres PEMCf

**Mapped Soils / On-site Soils:** Cloquato SiL, Newberg fine sandy loam

**Hydrologic Source and Description:**

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | *Polygonum* species |

**Boundary Information:** slight topographic break; vegetation changes to bentgrass field

**Wetland Functions:** Wetland functions of Wetland unit W18 are degraded due to annual plowing. Educational and recreational uses are not appropriate.

**Significance:** Not a Significant Resource

W14 SD3



Salem Water Ditch

SWT1

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | | |
|---|---|---|---|
| **WETLAND:** SD1 | **Unit:** W19 | **Acreage:** 0.6 acres | **Field Date:** 9/27/97 |
| **Drainage Basin:** mid-Willamette | | **Sub-Basin:** Salem Water Ditch | **On-site Assessment** |
| **Location:** Wilco Farmer's Co-op | | | **Inside City** |
| **T9S R1W Section:** 9 | **Quarter:** NW | | **Delineation:** none |

**General Description:** SD1 is located behind Wilco Farmer's Co-op adjacent to the berm of the Salem Water Ditch. Vegetation is dominated by reed canarygrass and includes black hawthorn and Douglas' spirea. There is an excavated seasonal pond on the south end. The wetland connects to Salem Ditch on the south end.

**Wetland Classification:** 0.6 acres PEMC

**Mapped Soils / On-site Soils:** Courtney gravelly silty clay loam / SL, moist at 6 inches; 10YR 3/2 w/7.5YR 4/4 mottles

**Hydrologic Source and Description:** Precipitation

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | *Crataegus douglasii* | **Phalaris arundinacea* |
| | *Spiraea douglasii* | |

**Boundary Information:** topographic break; vegetation changes to Himalayan blackberry

**Wetland Functions:** Wetland unit W19 provides some wildlife habitat. Water quality function is intact. Other functions are degraded or not appropriate.

**Significance:** Locally a Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** SD2 **Unit:** W20 | **Acreage:** 2.9 acres | **Field Date:** 9/19/97 |
| **Drainage Basin:** mid-Willamette | **Sub-Basin:** Salem Water Ditch | **On-site Assessment** |
| **Location:** SW of Shaff Road/Wilco Road, E. of Salem Water Ditch | | **Outside City** |
| **T9S R1W Section:** 9 | **Quarter:** NW | **Delineation:** none |

**General Description:** SD2 is a depression area located in a ryegrass field that drains towards a manmade pond (SD3). It seasonally ponds water. Wetland vegetation is dominated by spikerush and smartweed in the lowest areas and birdsfoot trefoil and creeping buttercup in upper depressional areas.

**Wetland Classification:** 2.9 acres PEMCf

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL; 10YR 2/1

**Hydrologic Source and Description:** precipitation; perched water table

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | **Eleocharis* species |
| | | **Lotus corniculatus* |
| | | **Polygonum species* |
| | | **Ranunculus repens* |
| | | *Juncus effusus* |
| | | *Lolium perenne* |
| | | *Plantago major* |

**Boundary Information:** slight topographic break; vegetation changes to perennial ryegrass

**Wetland Functions:** Wetland unit W20 has degraded functions due to annual plowing; fish habitat is not applicable; educational and recreational uses not appropriate.

**Significance:** Not a Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | |
|---|---|---|
| **WETLAND:** SD3; created pond | **Unit:** W21 **Acreage:** 2.2 acres | **Field Date:** 7/30/97 |
| **Drainage Basin:** mid-Willamette | **Sub-Basin:** Salem Water Ditch | **On-site Assessment** |
| **Location:** Shaff Road, east of Salem Water Ditch | | **Outside City** |
| **T9S R1W Section:** 9 | **Quarter:** NW | **Delineation:** none |

**General Description:** Recreational pond with shallow water less than 5 feet deep. No emergent vegetation except for birdsfoot-trefoil on east edge. North edge is concrete, south and west edges are asphalt hunks and river rock. Buffer of evenly planted, single row of evergreen trees (Douglas fir, western red cedar) with mowed lawn. Pond is used by waterfowl; 50 Canada geese were observed.

**Wetland Classification:** 2.2 acres POWHh

**Mapped Soils / On-site Soils:** Courtney gravelly SiCL

**Hydrologic Source and Description:** water is piped to the pond from the Salem Water Ditch approximately 300 feet to the south.

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | | *Lotus corniculatus* |

**Boundary Information:** slight topographic break; vegetation changes to Douglas fir and mowed lawn

**Wetland Functions:** Wetland unit W21 has limited functions: hydrologic and water quality control functions degraded; habitat available for some wildlife species; fish habitat is degraded and water is connected to Salem Water Ditch an anadromous fish bearing stream; educational and recreational uses not appropriate.

**Significance:** Not a Significant Resource

**STAYTON AREA WETLANDS AND RIPARIAN CORRIDOR INVENTORY**
**WETLAND SUMMARY SHEET**

| | | | |
|---|---|---|---|
| **WETLAND:** SWT1 | **Unit:** NA | **Acreage:** 0.4 acres | **Field Date:** 11/5/97 |
| **Drainage Basin:** mid-Willamette | **Sub-Basin:** Stayton Water Ditch | | **Off-site Assessment** |
| **Location:** north and south of Ida Street west of 1207 | | | **Inside City** |
| **T9S R1W Section:** 9 | **Quarter:** SE | | **Delineation:** none |

**General Description:** SWT1 is a depressional 36 foot wide wetland (18 foot wide swale) that is culverted (>24") beneath Ida Street and dammed to create a small seasonal pond. It has a red alder canopy along the swale north of Ida Street. There is limited cover and mowed lawn south of Ida.

**Wetland Classification:** 0.3 acre PFOC, 0.1 acre PEMC

**Mapped Soils / On-site Soils:** Cloquato silt loam

**Hydrologic Source and Description:** precipitation; runoff; no pipes visible to Stayton Ditch

**Common Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | **Rubus discolor* | *Equisetum arvense* |
| | bamboo | *Solanum dulcamara* |
| | | mowed lawn |

**Boundary Information:** slight topographic break; vegetation changes to Douglas fir, big leaf maple, Canada thistle, common dandelion and/or mowed lawn.

**Wetland Functions:** Wetland unit W15 provides some wildlife habitat (winter waterfowl). Other functions are degraded or not appropriate.

**Significance:** Not a Significant Resource

## VEGETATION SPECIES LIST
## CITY OF STAYTON UGB - LOCAL WETLANDS INVENTORY

| Common Name | Scientific Name | Indicator Status |
|---|---|---|
| vine maple | *Acer circinatum* | FAC- |
| big-leaf maple | *Acer macrophyllum* | FACU |
| redtop | *Agrostis alba* | FAC |
| bentgrass | *Agrostis* species | - |
| red alder | *Alnus rubra* | FAC |
| water foxtail | *Alopecurus geniculatus* | OBL |
| lady fern | *Athyrium filix-femina* | FAC |
| beggars-tick | *Bidens* species | - |
| spring water-starwort | *Callitriche verna* | OBL |
| big-leaf sedge | *Carex amplifolia* | FACW+ |
| Dewey's sedge | *Carex deweyana* | FACU |
| slough sedge | *Carex obnupta* | OBL |
| thick-headed sedge | *Carex pachystachya* | FAC |
| one-sided sedge | *Carex unilateralis* | FACW |
| inflacted sedge | *Carex vesicaria* | OBL |
| red-osier dogwood | *Cornus stolonifera* | FACW |
| beaked hazelnut | *Corylus cornuta* | FACU |
| black hawthorn | *Crataegus douglasii* | FAC |
| Scot's broom | *Cytisus scoparius* | NOL |
| large barnyard grass | *Echinochloa crusgalli* | FACW |
| ovoid spikerush | *Eleocharis ovata* | OBL |
| creeping spikerush | *Eleocharis palustris* | OBL |
| spikerush | *Eleocharis* species | FACW/OBL |
| common horsetail | *Equisetum arvense* | FAC |

| Common Name | Scientific Name | Indicator Status |
|---|---|---|
| Oregon ash | *Fraxinus latifolia* | FACW |
| tall mannagrass | *Glyceria elata* | FACW+ |
| mannagrass | *Glyceria* species | FACW+/OBL |
| lowland cudweed | *Gnaphalium palustre* | FAC+ |
| tapered rush | *Juncus acuminatus* | OBL |
| toad rush | *Juncus bufonius* | FACW |
| soft rush | *Juncus effusus* | FACW |
| dagger-leaf rush | *Juncus ensifolius* | FACW |
| perennial ryegrass | *Lolium perenne* | FACU |
| black twinberry | *Lonicera involucrata* | FAC+ |
| birdsfoot-trefoil | *Lotus corniculatus* | FAC |
| bigleaf lupine | *Lupinus polyphyllus* | FAC+ |
| skunk cabbage | *Lysichitum americanum* | OBL |
| false lily of the valley | *Maianthemum dilatatum* | FAC |
| spearmint | *Mentha spicata* | OBL |
| Siberian springbeauty | *Montia* [*Claytonia*] *sibirica* | FAC |
| small-flowered forget-me-not | *Myosotis laxa* | OBL |
| water parsley | *Oenanthe sarmentosa* | OBL |
| witchgrass | *Panicum* species | - |
| reed canarygrass | *Phalaris arundinacea* | FACW |
| Pacific ninebark | *Physocarpus capitatus* | FACW- |
| Scouler popcorn-flower | *Plagiobothrys scouleri* | FACW |
| common plantain | *Plantago major* | FACU+ |
| knotweed or smartweed | *Polygonum* species | - |
| black cottonwood | *Populus trichocarpa* [*balsamifera*] | FAC |
| Douglas fir | *Pseutotsuga menziesii* | FACU |

| Common Name | Scientific Name | Indicator Status |
|---|---|---|
| Oregon white oak | *Quercus garryana* | NOL |
| buttercup | *Ranunculus* species | - |
| creeping buttercup | *Ranunculus repens* | FACW |
| cascara | *Rhamnus purshiana* | FAC- |
| curve-pod yellow-cress | *Rorippa curvisiliqua* | OBL |
| rose | *Rosa* species | - |
| Himalayan blackberry | *Rubus discolor* | FACU |
| evergreen blackberry | *Rubus laciniatus* | FACU+ |
| Pacific blackberry | *Rubus ursinus* | FACU |
| Pacific willow | *Salix lasiandra* | FACW+ |
| Piper's willow | *Salix piperi* | FACW |
| Sitka willow | *Salix sitchensis* | FACW |
| willow | *Salix* species | FAC or wetter |
| red elderberry | *Sambucus racemosa* | FACU |
| small-fruited bulrush | *Scirpus microcarpus* | OBL |
| bulrush | *Scirpus* species | - |
| climbing nightshade | *Solanum dulcamara* | FAC+ |
| Canada goldenrod | *Solidago canadensis* | FACU |
| simplestem bur-reed | *Sparganium emersum* | OBL |
| Douglas' spirea | *Spiraea douglasii* | FACW |
| marsh hedgenettle | *Stachys cooleyae* [*emersonii*] | FACW |
| snowberry | *Symphoricarpos albus* | FACU |
| broad-leaf cattail | *Typha latifolia* | OBL |
| purslane speedwell | *Veronica peregrina* | OBL |

# APPENDIX 3

## WETLAND DETERMINATION DATA SHEETS

#1

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: M1 County: Marion State: OR Date: 7/29/97 Plot: M1 Wet
Applicant/Owner: ODOT mit site Sect. 3 Township 9S Range 1W City: Stayton
Plot Location: Mill Creek
Topographic Location:
Do normal environmental conditions exist? (Y) N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 50) | | |
| *1. Phalaris arundinacea | 100 | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 50) | | |
| *1. Physocarpus capitatus | 20 | |
| *2. Salix piperi | 20 | |
| 3. Salix sitchensis | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 100) | | |
| *1. Fraxinus latifolia | 100 | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/4 = 100
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: McAlpin SiCL Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: to steep + wet to sample
Hydric Soil Criterion / Indicators Met? (YES) NO assumed; stream banks

## HYDROLOGY

Depth of inundation: stream banks Depth to free water:___ Depth to saturation:___ seeps:___

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| X Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| X Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments:
Determined by: CMW + CG

*Fishman Environmental Services* rev.6/97

#2

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: LW1 County: Marion State: OR Date: 7/29/97 Plot: M1 up
Applicant/Owner: ODOT Mit Site Sect. 3 Township 9S Range 1W City: Stayton
Location: S end of Mit Site - N. of Mill Creek
Topographic Location: on berm above stream
Do normal environmental conditions exist? Y N Explain: mitigation Site
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| 1. Lolium perenne | 50 | FACU |
| 2. Anthoxanthum odoratum | 50 | FACU |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0/2 = 0
Hydrophytic Vegetation Criterion Met? YES (NO) NWI Class_____

## SOILS

Mapped unit name: Mc Alpin SiCl Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? YES (NO) assumed

## HYDROLOGY

Depth of inundation: 0 Depth to free water: — Depth to saturation: — seeps: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? YES (NO) | |

**DETERMINATION:** Is this plot a Wetland? YES (NO)
Comments: Veg. does not meet WL criteria
Determined by: JCG + CMW

#3

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: ODOT Mit. - M2 County: Marion State: OR Date: 7/29/97 Plot: M2-Wet
Applicant/Owner: ODOT RFP 9125 Sect. _____ Township 9S Range 1W City: Stayton
Plot Location: S of Hwy 22 E of Cascade Hwy West end pond, inflow from N. trib
Topographic Location: of Mill Creek, 4 ft bank excavated
Do normal environmental conditions exist? Y N Explain: mitigation site
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: _____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 90) | | |
| *1. Eleocharis palustris | 30 | OBL |
| *2. Juncus acuminatus | 30 | OBL |
| 3. BIFR | tr | |
| *4. Gnaphalium palustre | 20 | FAC+ |
| 5. POLYG longwhiteraeme | tr | |
| 6. JUEN | tr | |
| 7. GLYOCC(?) short | tr | |
| 8. Juncus bufonius | 10 | FACW |
| 9. ~~CAELUPA~~ | tr | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| ~~**Shrub/Sapling**~~ Stratum (% total cover: ) | | |
| 1. trace MIGU | tr | |
| 2. AGST | tr | |
| 3. VEAM | tr | |
| 4. | | |
| 5. | | |
| ~~**Tree**~~ Stratum (% total cover: 0) | | |
| 1. few planted SYAL + ALRU (1 dead) | | FAC |
| 2. | | |
| 3. | | |

Remarks: _____
Percent of Dominant Species that are OBL, ~~FACW~~, or FAC (excluding FAC-): 3/3 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: Waldo SiCL Matches Profile? Y N
Taxonomy: _____ Drainage Class: _____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6 | | 10YR3/1 | | SiCL |
| 6- | | 10YR5/1 | com coarse 7.5YR 4/6 | CL |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: _____
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation: 12' Depth to free water: _____ Depth to saturation: 0-6 seeps: _____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO Mitigation | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO FOR DATA SEE #2
Comments: Mitigation WL
Determined by: CMW + CG

#4

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: M2 County: Marion State: OR Date: 7/29/97 Plot: M2-wet
Applicant/Owner: ODOT = RF 9125 Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: 15' W of (1) - scraped terrace acts as FP bench
Topographic Location: (M2) #3
Do normal environmental conditions exist? Y (N) Explain: mitigation site - compacted soils
Are soils X vegetation ___ hydrology ___ significantly disturbed? N Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 45) | | |
| *1. Bidens frondosa (scattered) | 10 | FACW+ |
| 2. Gnaphalium palustre | 25 | FACW |
| *3. Epilobium watsonii | 5 | FACW- |
| *4. Anthoxanthum odoratum | 5 | FACU |
| 5. Lolium perenne | tr | FACU |
| *6. Agrostis tenuis | 5 | FAC |
| *7. Polygonum aviculare | 5 | FACW- |
| *8. Veronica peregrina | 5 | OBL |
| *9. Daucus carota | 5 | NOL |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| ~~**Shrub/Sapling** Stratum (% total cover: ____)~~ | | |
| 1. Anthemis cotula | tr | FACU |
| 2. Eleocharis palustris | tr | OBL |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 6/7 = 86%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: ____ Matches Profile? Y N
Taxonomy: ____ Drainage Class: ____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-2 | | 10YR 4/4 | | SiL |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: hard packed (unable to probe) / mit. site - soils may not reflect hydrologic conditions
Hydric Soil Criterion / Indicators Met? YES NO (?)

## HYDROLOGY

Connected to N trib + to mullck - (by excavation on latter)
Depth of inundation: ____ Depth to free water: ____ Depth to saturation: ____ seeps: ____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | ~~Other:~~ > Cracked soil - was ponded earlier | |
| ___Sediment Deposits | Remarks: (but defined as upland in mit plan) - area disturbed from mitigation construction (compacting soils). As vegetation develops upland plants may spread | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: 75 is HIGHWAY (CASCADE + 22) + barn on mill creek
Determined by: CMW + CG

#5

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MillCr #M3 County: Marion State: OR Date: 7/29/97 Plot: M3-wet
Applicant/Owner: Sect. 3 Township 9S Range 1W City: Stayton
Lot Location: 25' east of Oakmont Rd, 150' S of MillCr Mainstem
Topographic Location: Flood plain, hummocky
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| * 1. Phalaris arundinacea | 90 | FACW |
| 2. CAOB | tr | |
| 3. Carex amplifolia (sup) | 10 | FACW |
| 4. + tr Car. vesicaria | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 10) | | |
| * 1. Salix sp. | 10 | FACorwetter |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/2 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO
NWI Class PEM 5-10% PSS
goes to 40 % PEO on west side → FRLA SAPI + SPDO + tr COST

## SOILS

Mapped unit name: Waldo SiCL Matches Profile? (Y) N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-4 | | 10YR 3/1 | com. fine 7.5YR 4/4 MT | SiCL, ORC, mg. |
| 4-11 | | N 2/0 | few " 10YR 5/1 MT | SiL " |
| | | | | |
| | | | | |

___Histosol
___Histic Epipedon
X Sulfidic Odor slight
___Prob. Aquic Moisture Regime
___Reducing Conditions (test)
X Gleyed
X Mottled (w/i 10")
___Concretions (w/i 3", >2mm)
___Hi. Organic Cont. Surf. Layer
___Organic Streaking
___Organic Pan
___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation:_____ Depth to free water:_____ Depth to saturation: 7" seeps:_____

1° Indicators
___Inundated
X Saturated in upper 12"
___Water Marks
___Drift Lines
___Sediment Deposits
___Drainage Patterns

2° Indicators
X Oxidized Root Channels in upper 12"
___Water-stained leaves

2° Indicators
___Local Soil Survey Data
___FAC-Neutral Test

Recorded Data Available (aerials, gauge)? Explain:
Other: W side 4-6" Flood debris
Remarks:
Wetland Hydrology Criterion / Indicators Met? (YES) NO

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments:
Determined by: CMW + CG

#6

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: M3 up County: Marion State: OR Date: 7/29/97 Plot: M3-up
Applicant/Owner: 663 Schaff Rd Sect. 3 Township 9S Range 1W City: Stayton
Plot Location: W/in 3' (south) of WB - atleast 400-500' S of mill CF
Topographic Location: Upslope gradually
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| *1. Festuca arundinacea | 60 | FAC- |
| *2. Poa pratensis | 20 | FAC |
| *3. Agrostis tenuis | 20 | FAC |
| 4. Carex sp. | tr | |
| 5. 1 JUEF | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 0) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 0) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: distinct veg break. All JU + CAR drop out w/i 5ft
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/3 = 66% + becomes all FEAR
Hydrophytic Vegetation Criterion Met? **YES** **NO** but not strong
NWI Class PEM

## SOILS

Mapped unit name: Salem gravelly SiL Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-4 | | 10YR 3/4 | | SiL |
| 4-2 | | 10 YR 4/2 | Ft mottling | SiL crumbly |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? **YES** **NO**

## HYDROLOGY

Depth of inundation: — Depth to free water: — Depth to saturation: — seeps:

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: No indicators | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** **NO** | |

**DETERMINATION:** Is this plot a Wetland? **YES** **NO**
Comments:
Determined by: CMW & CG

#7

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Stayton school (middle) County: Marion State: OR Date: 7/30/97 Plot: M4-wet
Applicant/Owner: Sect. Township 9S Range 1W City: Stayton
Plot Location: school property near corner of adjacent prop. & bike/jog path
Topographic Location: N/W where prop. ↓S
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:
on trail N of bridge over Mill creek. PHAR/FRLA low wetlands

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| *1. Phalaris arundinacea | 30 | FACW |
| 2. Ranunculus flamula? | 15 | |
| 3. Eleocharis sp | 15 | OBL |
| *4. Ranunculus repens | 30 | FACW |
| 5. MYLA | 5 | OBL |
| 6. CAST | TR | |
| 7. CAOB | TR | |
| 8. DESA | 5 | OBL |
| 9. STCO | TR | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 60) | | |
| *1. Lonicera involucrata | 20 | FACW |
| 2. Rosa species | 10 | |
| 3. Rhamnus purshiana | 10 | |
| *4. Fraxinus latifolia | 15 | FACW |
| 5. PHCA | 5 | |
| **Tree** Stratum (% total cover: 40) | | |
| *1. Fraxinus latifolia | 35 | FACW |
| 2. Sal. sp. | 5 | — |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 5/5 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: Waldo SiCL Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6 | | 10YR2/1 | few fine 10YR5/6 MT, very rooty | crumbly, SiL, some ORG |
| 6-13 | | 10YR3/1 | com med-coarse 10YR4/6 some rocks | SiCL, ORG, stiff, blk core |
| | | | + 10YR 6/6 MT + areas | gley |
| | | | A com fine-med | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon X Gleyed ___Organic Streaking
___Sulfidic Odor X Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation: 0 Depth to free water: 0 Depth to saturation: 0 seeps:

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | X Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | X FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: slightly moist, cracked soil - ponded earlier | |
| ___Sediment Deposits | Remarks: | |
| X Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

## DETERMINATION: Is this plot a Wetland? (YES) NO

Comments: Add. WL sp. - JUEF, CAOB + MAPI over
Determined by: CMW + CJ

#8

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Stayton Mid School County: Marion State: OR Date: 7/30/97 Plot: M4-up
Applicant/Owner: _____ Sect. _____ Township 9S Range 1W City: Stayton
Plot Location: East Looms Addition sign if ft as trail leads up slope
Topographic Location: 150' NE of wetplot ; uphill ~ 2 ft
Do normal environmental conditions exist? Y N Explain: _____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: _____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| * 1. Rubus ursinus | 50 | FACU |
| 2. Polystichum munitum | 15 | FACU |
| 3. CAHE | 25 | FAC |
| 4. CADEW | 25 | FACU |
| 5. Tellima grandiflora | 15 | NOL |
| 6. Pteridium aquilinum | 10 | FACU |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 85) | | |
| 1. Symphoricarpos albus | 15 | FACU |
| 2. Oemleria cerasiformis | 10 | FACU |
| * 3. Acer circinatum | 40 | FAC- |
| 4. ACMA | tr | |
| * 5. Corylus cornuta 20% RUPA | tr | |
| **Tree** Stratum (% total cover: 60) | | |
| * 1. Pseudotsuga menziesii | 30 | FACU |
| * 2. Alnus rubra | 30 | FAC |
| 3. | | |

Remarks: _____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/4 = 25%
Hydrophytic Vegetation Criterion Met? **YES** **NO** NWI Class_____

## SOILS

Mapped unit name: Salkum Matches Profile? Y N
Taxonomy: _____ Drainage Class: _____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-9" | | 10YR 3/4 | | SiL, crumbly + friable |
| 9-13" | | 7.5YR 3/3 | common med 10YR 4/4 | SiL, No wetland indic |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: _____
Hydric Soil Criterion / Indicators Met? **YES** **NO**

## HYDROLOGY

Depth of inundation: — Depth to free water: — Depth to saturation: _____ seeps: _____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: _____ | |
| ___Drift Lines | Other: _____ | |
| ___Sediment Deposits | Remarks: No Hydrology Indicators | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** **NO** | |

**DETERMINATION:** Is this plot a Wetland? **YES** **NO**
Comments: _____
Determined by: CMW + CG *Fishman Environmental Services* rev.6/97

#9

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MS County: Marion State: OR Date: 5/21/98 Plot: WL
Applicant/Owner: MS - LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: Carlo field
Topographic Location: ____
Do normal environmental conditions exist? (Y) N Explain: ____
Are soils X vegetation ___ hydrology ___ significantly disturbed? N Explain: dist. by horses

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100%) | | |
| *1. Alopecurus geniculatus | 50% | OBL |
| *2. Ranunculus repens | 35% | FACW |
| 3. Prunella vulgaris | 10 | FACW+ |
| 4. Mentha pulegium | 5 | OBL |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: Ø) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: Ø) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/2 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO
NWI Class PEM

## SOILS

Mapped unit name: CuSIB Courtney / Salkum SiCL (gravelly SiCL) Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: well drained - during winter & spring water table high

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6" | ___ | 10YR 3/2 | ORC | ____ |
| 6-12" | ___ | 10YR 3/1 | 10YR 4/6 fine, common | SiCL |
| ___ | ___ | ___ | ____ | ____ |
| ___ | ___ | ___ | ____ | ____ |

___Histosol
___Histic Epipedon
___Sulfidic Odor
___Prob. Aquic Moisture Regime
___Reducing Conditions (test)
___Gleyed
X Mottled (w/i 10")
___Concretions (w/i 3", >2mm)
___Hi. Organic Cont. Surf. Layer
___Organic Streaking
___Organic Pan
___On Hydric Soils List

Remarks: Soil compacted by horses; looks more like Waldo-SiCL, poorly drained
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation: 2" ponding Depth to free water: ____ Depth to saturation: ____ seeps: ____

1° Indicators
X Inundated
___Saturated in upper 12"
___Water Marks
___Drift Lines
___Sediment Deposits
___Drainage Patterns

2° Indicators
___Oxidized Root Channels in upper 12"
___Water-stained leaves

2° Indicators
___Local Soil Survey Data
___FAC-Neutral Test

Recorded Data Available (aerials, gauge)? Explain: ____
Other: ____
Remarks: ____
Wetland Hydrology Criterion / Indicators Met? (YES) NO

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: ____
Determined by: CGW

#10 up

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MS County: Marion State: OR Date: 5/21/98 Plot: _____
Applicant/Owner: LWI Sect. _____ Township 9S Range 1W City: Stayton
Plot Location: Carls field
Topographic Location: _____
Do normal environmental conditions exist? Y N Explain: _____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: _____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| *1. grass (grazed) | 40 | ? |
| *2. Prunella vulgaris | 40 | FACU+ |
| 3. Cirsium arvense | 5 | FACU+ |
| 4. Daucus carota | 5 | NOL |
| 5. Parentucellia viscosa | 5 | FAC- |
| 6. Senecio jacobaea | Tr | |
| 7. Trifolium dubium | 5 | NOL |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: _____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/2 or 2/2 = 100
Hydrophytic Vegetation Criterion Met? **YES** (NO) NWI Class _____

## SOILS

Mapped unit name: Wa/SIB Waldo SiCL / (Salkum SiCL) Matches Profile? (Y) N
Taxonomy: _____ Drainage Class: well drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-12 | | 10YR3/3 | very compacted soils, dry | SiCL |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: _____
Hydric Soil Criterion / Indicators Met? **YES** (NO)

## HYDROLOGY

Depth of inundation: _____ Depth to free water: _____ Depth to saturation: at surf seeps: _____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: _____ | |
| ___Drift Lines | Other: _____ | |
| ___Sediment Deposits | Remarks: heavy recent rains | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? **YES** (NO)
Comments: _____
Determined by: CG _____ *Fishman Environmental Services* rev.6/97

#1/11a

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: M6 County: Marion State: OR Date: 6/21/98 Plot: _____
Applicant/Owner: LWI Sect. 4 Township 9S Range 1W City: Stayton
ot Location: east of ag. field
Topographic Location: depression
Do normal environmental conditions exist? (Y) N Explain: _____
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain: _____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 85) | | |
| 1. Eleocharis Species | 20 | OBL |
| 2. Ranunculus orthorhynx | 10 | FACW- |
| 3. Carex leporina | 20 | FACW |
| 4. Carex densa | 15 | OBL |
| 5. Carex unilateralis | 10 | FACW |
| 6. Persicaria oregana | 5 | |
| 7. Holcus lanatus | 5 | FAC |
| 8. | | |
| 9. | | |

| *Dominant Plant Species 5 | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ) | | |
| 1. Rosa Species | 5% | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 50%) | | |
| 1. Fraxinus latifolia | 50% | FACW |
| 2. | | |
| 3. | | |

Remarks: _____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: CU - Courtney gravelly SiCL Matches Profile? (Y) N
Taxonomy: _____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-3" | | 10YR 3/1 | | gravels |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon X Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: low chroma, hydrology present
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

scattered ponds
Depth of inundation: 2" deep Depth to free water: _____ Depth to saturation: _____ seeps: _____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated in places | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: _____ | |
| ___Drift Lines | Other: _____ | |
| ___Sediment Deposits | Remarks: _____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

## DETERMINATION: Is this plot a Wetland? (YES) NO

Comments: 11a = ryegrass field — Not wetland; soils 10YR 2/2
Determined by: CG

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: M6 County: Marion State: OR Date: 5/21/98 Plot: #11a
Applicant/Owner: LWI Sect. 4 Township 9S Range 1W City: Stayton
Plot Location: In ag field ~50' west of Plot #11
Topographic Location:
Do Normal Circumstances exist on the site? Y N Explain:
Are soils X vegetation X hydrology X significantly disturbed? N Explain: Ag field; plowed & seeded w/ ryegrass; drainage ditches on N & S sides of field to drain it.

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum - % total cover: 100% | | |
| 1. Lolium perenne | 100% | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum - % total cover: | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum - % total cover: | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0/1 = _____
Hydrophytic Vegetation Criterion Met? **YES** (**NO**) planted crop NWI Class _____

**SOILS**

Mapped unit name: Sifton gravelly loam Matches Profile? (Y) N
Taxonomy: Drainage Class: excessively drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6 | | 10YR 2/2 | | gravelly loam |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? **YES** (**NO**) undetermined

**HYDROLOGY**

Depth of inundation: _____ Depth to free water: _____ Depth to saturation: No soil saturation except on surface from recent rain

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: | |
| ___Drift Lines | Other: surface saturation only due to heavy rains in progress; NOTE: easily 1" in 1 hour | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (**NO**) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (**NO**)
Comments: Additional wetlands may exist in this field. More detailed assessment needed.
Determined by: CG *Fishman Environmental Services*

#12+12a

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MB - s forest clump County: Marion State: OR Date: 6/21/98 Plot: Wet
Applicant/Owner: LWI Sect. 4 Township 9S Range 1W City: Stayton
Lot Location: N. of Quail Run
Topographic Location:
Do normal environmental conditions exist? (Y) N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover:_____) | | |
| *1. Camas quamash | 80% | FACW |
| 2. Potentilla gracilis | 5 | FAC |
| 3. Ranunculus orthorhynchus | 5 | FACW |
| 4. Alopecurus geniculatus | 10 | OBL |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| *1. Fraxinus latifolia | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| * 1. Fraxinus latifolia | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: CK Clackamas gravelly loam Matches Profile? (Y) N
Taxonomy: Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-3" | | 10YR 2/1 | | SiL moist gravelly |
| below | | refusal | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon X Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: Low chroma, hydrology present
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation:_____ Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | X Water-stained leaves | X FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| X Drainage Patterns (swale) | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: 12a = Vegetation changes to Oak, snowberry, fringecup Soils: 10YR 2/2
Determined by: CJF

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: M6 S.forest clump County: Marion State: OR Date: 5/21/98 Plot: 12a
Applicant/Owner: LWI Sect. 4 Township 9S Range 1W City: Stayton
Plot Location: N. of Quail run
Topographic Location: ~25' west of plot #12
Do Normal Circumstances exist on the site? (Y) N Explain:
Are soils____ vegetation____ hydrology____ significantly disturbed? (N) Explain:

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind? |
|---|---|---|
| **Herb** Stratum - % total cover: 50% | | |
| * 1. Tellima grandiflora | 50% | NOL * |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum - % total cover: 50% | | |
| 1. Symphoricarpos albus | 50% | FACU |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| * **Tree** Stratum - % total cover: full canopy | | |
| 1. Quercus garryana | 100% | NOL |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0/3 = 0
Hydrophytic Vegetation Criterion Met? YES (NO) NWI Class____

**SOILS**

Mapped unit name: Sifton gravelly loam Matches Profile? (Y) N
Taxonomy: Drainage Class: excessively drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6 | | 10YR 2/2 | | gravelly loam |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? YES (NO)

**HYDROLOGY**

Depth of inundation:____ Depth to free water:____ Depth to saturation: soil moist

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? YES (NO) | |

**DETERMINATION:** Is this plot a Wetland? YES (NO)

Comments:
Determined by: CGalen *Fishman Environmental Services*

#13

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Yvonne wet County: Marion State: OR Date: 7/29/97 Plot: MB-wet
Applicant/Owner: MB Sect. 4 Township 9S Range 1W City: Stayton
Plot Location: S along fence, W of gate
Topographic Location:
Do normal environmental conditions exist? Y N Explain: Pasture
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 85) | | |
| 1. Carex unilateralis | 15 | FACW |
| * 2. Alopecurus geniculatus | 30 | OBL |
| 3. Gnaphalium palustre | 15 | FAC+ |
| 4. Eleocharis species | 10 | OBL |
| 5. Panicum species | 10 | |
| 6. Digitaria sanguinem | 5 | |
| 7. Veronica persicaria | tr | |
| 8. Poly spp w/ yellowshaft | tr | |
| 9. PLA SCO raceme | tr | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 0) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 0) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: Rorippa curs Nilgiva tr
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/1 = 100%
Hydrophytic Vegetation Criterion Met? **YES** NO
NWI Class PEM

## SOILS

Mapped unit name: Clackamas, Courtney Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| — | — | 10YR 2/1 | hardpacked - due to grazing & season | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon X Gleyed low chroma ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: dark 10YR 2/1 - 2/2 hardpacked not sampled
Hydric Soil Criterion / Indicators Met? **YES** NO

## HYDROLOGY

Depth of inundation:_____ Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: aerial signature | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: Vernal pool - bare soil | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** NO | |

**DETERMINATION:** Is this plot a Wetland? **YES** NO
Comments:
Determined by: CG + CMW

*Fishman Environmental Services* rev.6/97

#14

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Yvonne NE County: Marion State: OR Date: 7/29/97 Plot: M8-up
Applicant/Owner: Sect. 4 Township 9S Range 1W City: Stayton
Plot Location: in low spot in pasture that looked potentially wet on aerial
Topographic Location:
Do normal environmental conditions exist? Y N Explain: Cattle Pasture, Not irrigated
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100 ) | | |
| 1. Agrostis tenuis | 15 | FAC |
| 2. Lolium perenne | 5 | FACU |
| 3. Holcus lanatus | 15 | FAC |
| * 4. Festucaarundinacea | 30 | FAC- |
| 5. Vulpia | TR | |
| 6. Ranunculus repens | 10 | FACW |
| 7. Trifolium repins | 10 | FAC |
| 8. Dactylis glomerata | 15 | FACU |
| 9. Chrysanthemum leucanth. | TR | |
| Remarks: Cirsium vulgare TR | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 0 ) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 0 ) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/6 = 67%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-4 | | 10YR 2/2 | Comfine Red clay Tile? | SiL, gravel (Mull, FP) |
| — | | refusal | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? YES NO Undetermined

## HYDROLOGY

Depth of inundation:___ Depth to free water:___ Depth to saturation:___ seeps:___

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? YES (NO) | |

**DETERMINATION:** Is this plot a Wetland? YES (NO) Floods in Winter (96)
Comments: undetermined
Determined by: CG

#15

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MTS County: Marion State: OR Date: 5/21/98 Plot: wet
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
ot Location: ____
Topographic Location: In Swale, banks gradual not vertical
Do normal environmental conditions exist? Y N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| 1. Carex unilateralis | 60% | FACW |
| 2. Alopecurus pratensis | 20 | FACW |
| 3. Plagiobothrys figuratus | 10 | OBL |
| 4. Myosotis laxa | 10 | OBL |
| 5. Carex densa | TR | OBL |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/2 = 100
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: CL Courtney gravelly SiCL Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-4" | | 10YR 2/2 | | gravelly SiCL |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: ____
Hydric Soil Criterion / Indicators Met? (YES) NO assumed

## HYDROLOGY

Depth of inundation: 6" in channel Depth to free water: ____ Depth to saturation: ____ seeps: ____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: WL is ≈ 20' wide
Determined by: CG

#16

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MTS County: Marion State: OR Date: 5/21/98 Plot: up
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Lot Location: East of Golf Club Road
Topographic Location: Swale west of pasture; 10' w. of WL plot #15
Do normal environmental conditions exist? (Y) N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| *1. Alopecurus pratensis | 60 | FACW |
| *2. Vicia sativa | 20 | NOL |
| 3. Geranium species | 5 | NOL |
| 4. Vicia tetrasperma | 10 | NOL |
| 5. Bromus species | Tr | — |
| 6. Galium aparine | 5 | FACU |
| 7. Daucus carota | Tr | — |
| 8. Lupinus polyphyllus | Tr | — |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/2 = 50%
Hydrophytic Vegetation Criterion Met? **YES** (NO) NWI Class ____

## SOILS

Mapped unit name: CU - Courtney gravelly SiCL Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-4" | ____ | 10YR 2/2 | No MT | gravelly |
| Below | ____ | refusal | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? **YES** **NO** ? undetermined

## HYDROLOGY

Depth of inundation: 0 Depth to free water: ____ Depth to saturation: surface only seeps: ____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: No soil saturation | |
| ___Sediment Deposits | Remarks: Heavy Rains in process - about 1" in 1 hour | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (NO) | |

## DETERMINATION:

Is this plot a Wetland? **YES** (NO) undetermined
Comments: Gravels dry out quickly
Determined by: CJF

*Fishman Environmental Services* rev.6/97

MT4 #17

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: golf course trib. County: Marion State: OR Date: 7/30/97 Plot: wet
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: 1' S of water's edge
Topographic Location: ____
Do normal environmental conditions exist? Y N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: ____

## VEGETATION

| | *Dominant Plant Species | % Cover | Ind. |
|---|---|---|---|
| | **Herb** Stratum (% total cover: 75 ) | | |
| * 1. | Sparganium emersum | 20 | OBL |
| * 2. | Eleocharis sp. | 15 | FACW/OBL |
| * 3. | Lotus corniculatus | 30 | FAC |
| 4. | Juncus acuminatus | 10 | ____ |
| 5. | Myosotis laxa | 5 | ____ |
| 6. | Alopecurus geniculatus | 5 | ____ |
| 7. | Phalaris arundinacea | 10 | ____ |
| 8. | Juncus effusus | 5 | ____ |
| 9. | Lolium perenne | TR | ____ |
| | Remarks: Veronica americana TR | | |

| | *Dominant Plant Species | % Cover | Ind. |
|---|---|---|---|
| | **Shrub/Sapling** Stratum (% total cover: ____) | | |
| 1. | ____ | ____ | ____ |
| 2. | ____ | ____ | ____ |
| 3. | ____ | ____ | ____ |
| 4. | ____ | ____ | ____ |
| 5. | ____ | ____ | ____ |
| | **Tree** Stratum (% total cover: ____) | | |
| 1. | ____ | ____ | ____ |
| 2. | ____ | ____ | ____ |
| 3. | ____ | ____ | ____ |

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: Courtney gravelly SiCL Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-4 | ____ | 10YR 3/3 | 7.5YR 4/4 MT | SiCL |
| 4-10 | ____ | 10YR 4/1 | com fine 7.5YR 5/6 | SiCL / SiL |
| ____ | ____ | ____ | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon X Gleyed ___Organic Streaking
___Sulfidic Odor X Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation: 14" in channel Depth to free water: ~8" Depth to saturation: surf seeps: ____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | X Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: wetland 15' wide in channel area + wider @ pond
Determined by: CG

#18

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Golf Course Trib County: Marion State: OR Date: 7/30 Plot: MT4-up
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: 4 ft S of wet plot
Topographic Location: ____
Do normal environmental conditions exist? Y (N) Explain: mowed
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100 ) | | |
| * 1. Poa annua | 100 | FAC |
| 2. + other mowed golf course grasses | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 10 ) | | |
| 1. Populus nigra | 10 | NOL |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ____ ) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/1 = 100%
Hydrophytic Vegetation Criterion Met? **YES** NO
NWI Class PEM

## SOILS

Mapped unit name: Country gravelly SiCL Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6 | | 10YR3/3 | — | SiLm |
| 6-8 | | 10YR3/1 | few fine 7.5YR 4/6 | SiLm ORC |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? **YES** NO

## HYDROLOGY

Depth of inundation: ____ Depth to free water: ____ Depth to saturation: ____ seeps: ____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | X Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: losing hydrology as go further into | |
| ___Sediment Deposits | Remarks: maintained grounds of G.C. | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** NO | |

## DETERMINATION: Is this plot a Wetland? **YES** NO

Comments: transitional
Determined by: CMW + CG

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: golf course MG County: Marion State: OR Date: 7/30/97 Plot: #19 (MG)
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: golf course Ponds - mostly water hazard w/ an emergent fringe
Topographic Location: ____
Do normal environmental conditions exist? Y N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover:____) | | |
| * 1. Typha latifolia | 70 | OBL |
| * 2. Phalaris arundinacea | 20 | FACW |
| 3. Juncus effusus | 5 | FACW |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: CU Courtney gravelly SiCL Matches Profile? Y N
Taxonomy: ____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: INUNDATED
Hydric Soil Criterion / Indicators Met? YES NO

## HYDROLOGY

Depth of inundation:____ Depth to free water:____ Depth to saturation:____ seeps:____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: 19a - mowed golf course = upland
Determined by: CMW & PG

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 970417 Site: M9 golf course County: Marion State: OR Date: 7/30/97 Plot: 19a
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: adjacent to golf course pond
Topographic Location: ____
Do Normal Circumstances exist on the site? Y N Explain: ____
Are soils ____ vegetation X hydrology ____ significantly disturbed? N Explain: golf course fairway mowed+irrigated

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum - % total cover: ____ | | |
| 1. mowed grasses | ____ | ____ |
| 2. ____ | ____ | ____ |
| 3. ____ | ____ | ____ |
| 4. ____ | ____ | ____ |
| 5. ____ | ____ | ____ |
| 6. ____ | ____ | ____ |
| 7. ____ | ____ | ____ |
| 8. ____ | ____ | ____ |
| 9. ____ | ____ | ____ |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum - % total cover: ____ | | |
| 1. ____ | ____ | ____ |
| 2. ____ | ____ | ____ |
| 3. ____ | ____ | ____ |
| 4. ____ | ____ | ____ |
| 5. ____ | ____ | ____ |
| **Tree** Stratum - % total cover: ____ | | |
| 1. ____ | ____ | ____ |
| 2. ____ | ____ | ____ |
| 3. ____ | ____ | ____ |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 7 = ____
Hydrophytic Vegetation Criterion Met? **YES NO** NWI Class ____

**SOILS**

Mapped unit name: Courtney gravelly SiCL Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: poorly drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6 | ____ | 10YR3/2 | ____ | gravelly SiL |
| 6-8 | ____ | 10YR3/1 | ____ | " |
| ____ | ____ | ____ | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? (YES) NO

**HYDROLOGY**

Depth of inundation: Ø Depth to free water: — Depth to saturation: —

1° Indicators
___Inundated
___Saturated in upper 12"
___Water Marks
___Drift Lines
___Sediment Deposits
___Drainage Patterns

2° Indicators
___Oxidized Root Channels in upper 12"
___Water-stained leaves

2° Indicators
___Local Soil Survey Data
___FAC-Neutral Test

Recorded Data Available (aerials, gauge) ? - Explain: ____
Other: Drained for golf course; Hydrology criterion not met
Remarks: ____
Wetland Hydrology Criterion / Indicators Met? YES (NO)

**DETERMINATION:** Is this plot a Wetland? YES (NO)

Comments: ____
Determined by: CG *Fishman Environmental Services*

#20

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: SD3 County: Marion State: OR Date: 7/30/97 Plot: SD3
Applicant/Owner: SD3 - LWI Sect. 9 Township 9S Range 1W City: Stayton
Plot Location: S. end of pond
Topographic Location:
Do normal environmental conditions exist? Y (N) Explain: No, Created Pond; water supplied from ditch
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover:_____) | | |
| 1. Lotus corniculatus | 100% | FAC |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/1 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEMA/POW

## SOILS

Mapped unit name: CU - Courtney gravelly SiCl Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: INUNDATED
Hydric Soil Criterion / Indicators Met? YES NO

## HYDROLOGY

Depth of inundation: Pond inund. >5' Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments:
Determined by: CG + CMW

#21
SD2-wet

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: SD2 County: Marion State: OR Date: 9/19/97 Plot: goose pond (farmed field s. of)
Applicant/Owner: SW Shaffer / Wilco Rd Sect. 9 Township 9S Range 1W City: Stayton
Plot Location: ~30 ft wide swale - slightly sloped
Topographic Location: ~100 ft S of pond
Do normal environmental conditions exist? (Y) N Explain:
Are soils___ vegetation X hydrology___ significantly disturbed? N Explain: plowed + planted

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 90) | | |
| *1. Lolium perenne (planted) | 80 | FACU |
| *2. Eleocharis sp. | 5 | OBL |
| *3. Polygonum sp. | 5 | — |
| 4. Juncus effusus | tr | |
| 5. Plantago major | tr | |
| 6. Rorippa Cursivilgua | tr | |
| 7. Echinochloa crusgalli | tr | |
| 8. Gnaphalium palustre | tr | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 0) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 0) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: Other spp. noted in slight swale = RARE, CAREX sp, LOCO
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): ____ = ____
Hydrophytic Vegetation Criterion Met? (YES) NO (in swale) NWI Class PEMCf
some bare ground

## SOILS

Mapped unit name: Courtney gravelly SiCl Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-2 | | 10YR 2/1 | ORC | SiCL |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon X Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: ROCKY!! (probe only)
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation:____ Depth to free water:____ Depth to saturation: Surf seeps:____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | X Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | X FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments:
Determined by: CMF

#22

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: SD2 County: Marion State: OR Date: 9/19/97 Plot: SD2up
Applicant/Owner: LWI Sect. 9 Township 9S Range 1W City: Stayton
Plot Location: 10' east of wetland plot
Topographic Location:
Do normal environmental conditions exist? Y (N) Explain: Ag field; farmed
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| 1. Lolium perenne | 100% | FACU |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0/1 = 0%
Hydrophytic Vegetation Criterion Met? **YES** **NO** Atypical / Planted NWI Class_____

## SOILS

Mapped unit name: Sifton gravelly loam Matches Profile? Y N
Taxonomy: Drainage Class: excessively drained

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | gravelly loam |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? **YES** **NO** undetermined

## HYDROLOGY

Depth of inundation: ~ Depth to free water: ~ Depth to saturation: ~ seeps: ~

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** **NO** | |

**DETERMINATION:** Is this plot a Wetland? **YES** **NO**
Comments: Vegetation planted; no evidence of ponding.
Determined by: CG

#23

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Farmers Co-op County: Marion State: OR Date: 9/27/97 Plot: SD1 wet
Applicant/Owner: NW of Wilcox/Locust St Sect. 9 Township 9S Range 1W City: Stayton
Plot Location: depression
Topographic Location:
Do normal environmental conditions exist? (Y) N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 90) | | |
| * 1. Phalaris arundinacea | 90 | FACW |
| 2. Solanum dulcamara | TR | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 10%) | | |
| 1. Spiraea douglasii | 5% | |
| 2. Crataegus douglasii | 5% | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/1 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: Courtney gravelly SiCL Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-6" | | 10YR 3/2 | 7.5YR 4/4 MT | SiCL |
| | | | moist @ 6" | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor X Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation: ∅ Depth to free water: — Depth to saturation: — seeps:

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | X FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: moist @ 6" | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES NO** | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO upland = hill
Comments:
Determined by: CG & CMW

#24

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: SD1 County: Marion State: OR Date: _____ Plot: SD1 up
Applicant/Owner: LWI Stayton Sect. 9 Township 9S Range 1W City: Stayton
Plot Location: _____
Topographic Location: east and above wetland
Do normal environmental conditions exist? Y N Explain: _____
Are soils___ vegetation X hydrology___ significantly disturbed? N Explain: yes - veg is solid blackberry

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 100%) | | |
| 1. Rubus discolor | 100% | FACU |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: _____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0/1 = 0
Hydrophytic Vegetation Criterion Met? **YES** (NO) NWI Class_____

## SOILS

Mapped unit name: _____ Matches Profile? Y N
Taxonomy: _____ Drainage Class: _____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: _____
Hydric Soil Criterion / Indicators Met? **YES** (NO) Assumed; topo break & dist.

## HYDROLOGY

Depth of inundation: 0 Depth to free water: — Depth to saturation: — seeps: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: _____ | |
| ___Drift Lines | Other: _____ | |
| ___Sediment Deposits | Remarks: _____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (NO) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (NO)
Comments: Vegetation does not meet wetland criteria
Determined by: Jeg + CMW

*Fishman Environmental Services* rev.6/97

#25

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NST3 County: Marion State: OR Date: 9/19/97 Plot: NST3-wet
Applicant/Owner: Sect. Township 9S Range 1W City: Stayton
Plot Location: West side of Geren Island Rd in channel
Topographic Location:
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 25) | | |
| * 1. Lemna minor | 20 | OBL |
| 2. SODU @ edge | tr | |
| 3. Oenanthe sarmentosa | 5 | |
| 4. POLYGONUM | tr | |
| 5. Urdi @ edge | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |
| Remarks: Lots of bare ground | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ) | | |
| 1. | | |
| 2. Solanum dulcamara | | |
| 3. | | |
| 4. | | |
| 5. Urtica dioica | | |
| **Tree** Stratum (% total cover: 95) | | |
| * 1. Fraxinus latifolia | 95 | FACW |
| 2. | | |
| 3. | | |

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/2 = 100%
Hydrophytic Vegetation Criterion Met? **YES** NO NWI Class PFOC
* T = PSME*COCO, RUUR, SYAL, ACMA, SARA

## SOILS

Mapped unit name: Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-8 | | 10YR3/1 | | silt |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks:
Hydric Soil Criterion / Indicators Met? **YES** NO

## HYDROLOGY

Depth of inundation: 0-2" Depth to free water: Depth to saturation: seeps:

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| X Drift Lines @ 3 ft | Other: Channel 8' wide 2' deep - well defined | |
| ___Sediment Deposits | Remarks: outflow from pond on E of Rd = 18" concave | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** NO | |

**DETERMINATION:** Is this plot a Wetland? **YES** NO
Comments: flow disappears ~ 50 ft W of Rd
Determined by: CMW, CG

(OFF-SITE) 25a

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: geren island rd PEM pond + slough County: Marion State: OR Date: 7/30 Plot: NST 3-wet

Applicant/Owner: Sect. Township 9S Range 1W City: Stayton

Plot Location: on E side of paved rd to Island (w/ log trucks)

Topographic Location:

Do normal environmental conditions exist? Y N Explain:

Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 95) | | |
| * 1. Sparganium emersum | 40 | OBL |
| * 2. Glyceria sp. | 25 | FACW+/OBL |
| 3. Scirpus validus | 25 | |
| 4. Juncus effusus | tr | |
| 5. Polygonum | tr | |
| 6. Ranunculus repens on fringe | | |
| * 7. Agrostis sp. | 25 | — |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks:

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 67%

Hydrophytic Vegetation Criterion Met? **YES** NO NWI Class PEM

slough on west = PFO w/ FRLA + POTR + water + shrubby on banks

## SOILS

Mapped unit name: Matches Profile? Y N

Taxonomy: No Soil Sampled Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer

___Histic Epipedon ___Gleyed ___Organic Streaking

___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan

___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: offsite

Hydric Soil Criterion / Indicators Met? **YES** **NO**

## HYDROLOGY

Depth of inundation: 4-6" est. Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** **NO** | |

## DETERMINATION: Is this plot a Wetland? **YES** **NO**

Comments: offsite

Determined by: CMW + CG

#26

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NST3 County: Marion State: OR Date: 7/30/99 Plot: NST3 up
Applicant/Owner: LWI Sect. 11 Township 9S Range 1W City: Stayton
Plot Location: West of wet plot
Topographic Location: Terrace above swale
Do normal environmental conditions exist? (Y) N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 40%) | | |
| * 1. Polystichum munitum | 20 | |
| * 2. Rubus ursinus | 20 | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 40) | | |
| 1. Corylus cornuta | 10 | |
| * 2. Symphoricarpos albus | 30 | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 100) | | |
| * 1. Pseudotsuga menziesii | 90 | |
| 2. Acer macrophyllum | 10 | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 9/9 = 100
Hydrophytic Vegetation Criterion Met? **YES** (NO) NWI Class

## SOILS

Mapped unit name: Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: Distinct topographic break
Hydric Soil Criterion / Indicators Met? **YES** (NO)

## HYDROLOGY

Depth of inundation: 0 Depth to free water: — Depth to saturation: — seeps: None

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (NO) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (NO)
Comments: Vegetation doesn't meet Wetland criterion
Determined by: cg

*Fishman Environmental Services* rev.6/97

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

#27 +27a

Project #: 97047 Site: Sid + Helen Burr County: Marion State: OR Date: 11/5/97 Plot: NST4-WC1
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: swale in 5yr grass/corn field
Topographic Location: low swale
Do normal environmental conditions exist? (Y) N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain: surrounding area plowed + irrigated regularly

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| *1. Phalaris arundinacea | 100 | FACW |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 20%) | | |
| 1. Spiraea douglasii | 10 | FACW |
| 2. Rosa species | 10 | — |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/1 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PEM

## SOILS

Mapped unit name: Not Sampled Matches Profile? Y N
Taxonomy: Camas gravelly sloam Drainage Class: ____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? YES NO Inundated

## HYDROLOGY

Depth of inundation: 2" Depth to free water: — Depth to saturation: — seeps: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | X Water-stained leaves | X FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: 27a is a perennial ryegrass field w/ 2 oak trees + doesn't meet veg. Criteria
Determined by: CG

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NST4 County: Marion State: OR Date: 11/5/97 Plot: 27a
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: 25' North of Plot 27
Topographic Location: above depression
Do Normal Circumstances exist on the site? Y N Explain: ____
Are soils ____ vegetation X hydrology ____ significantly disturbed? N Explain: ag field, plowed

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum - % total cover: 100% | | |
| 1. Lolium perenne | 100% | FACU |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum - % total cover: | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum - % total cover: 10% | | |
| 1. Quercus garryana | 10% | NOL |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0 = ____
Hydrophytic Vegetation Criterion Met? **YES** (NO) NWI Class ____

**SOILS**

Mapped unit name: Sifton gravelly loam Matches Profile? Y N
Taxonomy: ____ Drainage Class: ____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| Not Sampled | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? **YES** (NO) Assumed

**HYDROLOGY**

Depth of inundation: — Depth to free water: — Depth to saturation: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (NO) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (NO)
Comments: ____
Determined by: ____ *Fishman Environmental Services*

#28+28a

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Lg pond connected to N channel (Salem Water Ditch) County: Marion State: OR Date: 6/17/97 Plot: NS2a -wet
Applicant/Owner: _____ Sect. _____ Township 9S Range 1W City: Stayton
Lot Location: Wilderness Park
Topographic Location: _____
Do normal environmental conditions exist? Y N Explain: _____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: _____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover:_____) | | |
| * 1. Polygonum sp. | | — |
| * 2. Myosotis laxa | | OBL |
| * 3. Veronica americana | | OBL |
| * 4. Juncus effusus | | FACW |
| * 5. Callitriche sp. | | pob OBL |
| * 6. Elodea sp. | | OBL |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| 1. Cornus Stolonifera | | FACW |
| 2. Alnus rubra | | FAC |
| 3. Spirea douglasii | | FACW |
| 4. Lonicera involucrata | | FACt |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. ALRU on fringe | | |
| 2. | | |
| 3. | | |

Remarks: RULA on banks
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 5/6 = 83%
Hydrophytic Vegetation Criterion Met? **YES** NO
PEM - <3' deep
NWI Class PUB ~~or POW~~ trace PEM

## SOILS

Mapped unit name: Alluvial Land (Ad *) Matches Profile? Y N
Taxonomy: _____ Drainage Class: _____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: Inundated - large pond
Hydric Soil Criterion / Indicators Met? **YES** NO

## HYDROLOGY

Depth of inundation: 6" to 3ft Depth to free water: _____ Depth to saturation: _____ seeps: _____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| X Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: _____ | |
| ___Drift Lines | Other: _____ | |
| ___Sediment Deposits | Remarks: _____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** NO | |

## DETERMINATION: Is this plot a Wetland? **YES** NO

Comments: 28a = veg doesn't meet wetland criteria = Douglas fir, big leaf maple, H. Blackberry, Snowberry, swordfern
Determined by: Chris Fishman Fishman Environmental Services rev.6/97

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Wilderness Pk County: Marion State: OR Date: 6/17/97 Plot: 28a
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: north of pond
Topographic Location: ____
Do Normal Circumstances exist on the site? (Y) N Explain: ____
Are soils____ vegetation____ hydrology____ significantly disturbed? (N) Explain: ____

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum - % total cover: 20% | | |
| *1. Polystichum munitum | 20% | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum - % total cover: 50 | | |
| *1. Rubus discolor | 30 | |
| *2. Symphoricarpos albus | 20 | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum - % total cover: 100 | | |
| *1. Pseudotsuga menziesii | 50 | |
| *2. Acer macrophyllum | 50 | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0 = ____
Hydrophytic Vegetation Criterion Met? **YES** (**NO**) NWI Class____

**SOILS**

Mapped unit name: Alluvial land Matches Profile? Y N
Taxonomy: ____ Drainage Class: ____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? **YES** **NO** undetermined

**HYDROLOGY**

Depth of inundation: — Depth to free water: — Depth to saturation: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (**NO**) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (**NO**)
Comments: ____
Determined by: CG *Fishman Environmental Services*

#29

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Wilderness Park County: Marion State: OR Date: 5/21/98 Plot: WL
Applicant/Owner: NS2 Sect. ____ Township 9S Range 1W City: Stayton
Lot Location: ____
Topographic Location: floodplain of water ditch
Do normal environmental conditions exist? (Y) N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 85) | | |
| * 1. Carex obnupta | 60 | OBL |
| 2. Glyceria species | 15 | FACW+/OBL |
| 3. Juncus effusus | 5 | FACW |
| 4. Mimulus species | 5 | OBL |
| 5. (guttatus - most likely) | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | 45 % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ____) | | |
| * 1. Lonicera involucrata | 20 | FAC+ |
| * 2. Sambucus racemosa | 25 | FACU |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 60%) | | |
| * 1. Salix lasiandra | 25 | FACW+ |
| * 2. Alnus rubra | 35 | FAC |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/5 = ____
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: Ad Alluvial lands Matches Profile? (Y) N
Taxonomy: ____ Drainage Class: Seasonal inundation

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-3" | ____ | 10YR 3/2 | ____ | SiL |
| 3-15" | ____ | 10YR 4/1 | 10YR 4/4 MT (common prom.) | SiCL |
| ____ | ____ | ____ | ____ | ____ |
| ____ | ____ | ____ | ____ | ____ |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor X Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: Low chroma
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation:____ Depth to free water:____ Depth to saturation: surface seeps:____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | X Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| X Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: ____
Determined by: CG

#30

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: Wilderness Park County: Marion State: OR Date: 5/21/98 Plot: up
Applicant/Owner: NS 2 Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: Field
Topographic Location: Terrace above channel
Do normal environmental conditions exist? Y N Explain: ____
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain: ____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100) | | |
| 1. Cirsium arvense | 5 | FACU+ |
| 2. grass | 95 | ? |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: ____) | | |
| 1. Rubus discolor | TR | |
| 2. (" adj to plot 100%) | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: ____) | | |
| 1. | | |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0 = ____
Hydrophytic Vegetation Criterion Met? **YES** (**NO**) assumed NWI Class ____

## SOILS

Mapped unit name: Ad - Alluvial lands Matches Profile? Y N
Taxonomy: ____ Drainage Class: seasonal wind.

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-16 | | 10YR 3/3 | | Sand |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: ____
Hydric Soil Criterion / Indicators Met? **YES** (**NO**)

## HYDROLOGY

Depth of inundation: ____ Depth to free water: ____ Depth to saturation: ____ seeps: ____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (**NO**) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (**NO**)
Comments: ____
Determined by: CoF *Fishman Environmental Services* rev.6/97

#31

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: "Frog Pond" w/Allan County: Marion State: OR Date: 9/29/99 Plot: NS3-Wet
Applicant/Owner: City Sect. 11 Township 9S Range 1W City: Stayton
Plot Location: near outfall - 3ft concrete - @ south
Topographic Location:
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 15-20) | | |
| 1. Myriophyllum sp. | tr | |
| *2. Juncus effusus @ edge | 5-10 | FACW |
| *3. Veronica americana @ edge | 5-10 | OBL |
| 4. Bidens frondosa @ edge | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover:_____) | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover:_____) | | |
| 1. POTR | ~~5~~ tr | |
| 2. ALRU | 5 | FAC |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/2 = 100% 90% POWH
Hydrophytic Vegetation Criterion Met? **YES** NO NWI Class PEM
Steep slopes @ veg = RUDI CYSC + POTR saplings 10% PEM on Islands (or aquatic bed)

## SOILS

Mapped unit name: Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: Rocky soils @ edge - hydric by ponding
Hydric Soil Criterion / Indicators Met? **YES** **NO**

~~Heb~~ kingfisher in River

## HYDROLOGY

Depth of inundation: 2-3ft+ Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: overbank flooding from River | |
| ___Sediment Deposits | Remarks: ~~Ha~~ Gated pond, hydrologic control, overflow from wat treatment | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** **NO** | |

**DETERMINATION:** Is this plot a Wetland? **YES** NO
Comments:
Determined by: CMW + CG

*Fishman Environmental Services* rev.6/97

#32

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NS3 County: Marion State: OR Date: _____ Plot: NS3-wet P2
Applicant/Owner: LWI - Stayton Sect. 11 Township 9S Range 1W City: Stayton
Plot Location: NE of P1 in PFO
Topographic Location: Floodplain
Do normal environmental conditions exist? (Y) N Explain: _____
Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain: _____

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 40) | | |
| * 1. Phalaris arundinacea | 14 | FACW |
| * 2. Juncus effusus | 13 | FACW |
| * 3. Carex obnupta | 13 | OBL |
| 4. Agrostis sp. | — | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 30%) | | |
| * 1. Salix species | 20 | FAC/FACW |
| 2. Spiraea douglasii | 5 | FACW |
| 3. Cornus stolonifera | 5 | FACW |
| 4. Rubus discolor | — | FAC |
| 5. | | |
| **Tree** Stratum (% total cover: 30%) | | |
| 1. Fraxinus latifolia | — | FACW |
| * 2. Salix lasiandra | 15 | FACW |
| * 3. Alnus rubra | 15 | FAC |
| Populus trichocarpa | — | FAC |

Remarks: _____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 6/6 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: _____ Matches Profile? Y N
Taxonomy: _____ Drainage Class: _____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| 0-12 | | 10YR 4/2 | a few rust concretions | Sand |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: _____
Hydric Soil Criterion / Indicators Met? (YES) NO

## HYDROLOGY

Depth of inundation: _____ Depth to free water: _____ Depth to saturation: surf. seeps: _____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ✓ Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: _____ | |
| ___Drift Lines | Other: _____ | |
| ___Sediment Deposits | Remarks: _____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES NO** | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments: _____
Determined by: CG

#33 NS3

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NS-3 County: Marion State: OR Date: 9/19/97 Plot: UP
Applicant/Owner: Sect. 11 Township 9S Range 1W City: Stayton
Plot Location: in Mosaic disturbed by fill on Sand
Topographic Location: Wetland is a narrow channel - 5-10' wide that is difficult to map due to dense canopy
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 0) | | |
| 1. Canopy too dense | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |
| **Shrub/Sapling** Stratum (% total cover: 100) | | |
| * 1. Rubus discolor | 80 | FACW |
| * 2. Cytisus scoparius | 20 | NOL |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 30) | | |
| * 1. Populus trichocarpa | 30 | FAC |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/3 = 0
Hydrophytic Vegetation Criterion Met? **YES** (**NO**) NWI Class

## SOILS

Mapped unit name: Alluvial lands, rocky Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? **YES NO** assumed not WL

## HYDROLOGY

Depth of inundation: 0 Depth to free water: — Depth to saturation: — seeps: 0

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| ___Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (**NO**) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (**NO**)
Comments: topographic break
Determined by: CBJ

#34 + 34a

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NS4 County: Marion State: OR Date: 9/19/97 Plot: NS4E-wet
Applicant/Owner: Sect. Township 9S Range 1W City: Stayton
Plot Location: East of 1st Ave
Topographic Location:
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 20 ) | | |
| * 1. Phalaris arundinacea | 20 | FACW |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |
| **Shrub/Sapling** Stratum (% total cover: 30 ) | | |
| * 1. Salix lasiandra | 30 | FACW+ |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 50 ) | | |
| * 1. Populus trichocarpa | 50 | FAC |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100%
Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: Alluvial Lands Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | 10YR 3/2 | | Sand (in places) |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? YES NO Undetermined

## HYDROLOGY

Depth of inundation:_____ Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| X Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| X Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| X Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

**DETERMINATION:** Is this plot a Wetland? (YES) NO
Comments:
Determined by: CG + CMW

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NS4 County: Marion State: OR Date: 9/19/97 Plot: 34a
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: E of 1st ave. 25' North of plot 34
Topographic Location: ____
Do Normal Circumstances exist on the site? (Y) N Explain: ____
Are soils____ vegetation____ hydrology____ significantly disturbed? (N) Explain: ____

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum - % total cover: ____ | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum - % total cover: 100 | | |
| 1. Rubus discolor | 100 | FACU |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum - % total cover: 100 | | |
| 1. Acer macrophyllum | 100 | FACU |
| 2. | | |
| 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0 = 0
Hydrophytic Vegetation Criterion Met? **YES** (NO) NWI Class____

**SOILS**

Mapped unit name: Alluvial lands Matches Profile? Y N
Taxonomy: ____ Drainage Class: ____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: veg does not meet wetland criterion
Hydric Soil Criterion / Indicators Met? **YES** (NO) assumed

**HYDROLOGY**

Depth of inundation: — Depth to free water: — Depth to saturation: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: ____ | |
| ___Drift Lines | Other: No indicators | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** (NO) | |

**DETERMINATION:** Is this plot a Wetland? **YES** (NO)
Comments: ____
Determined by: CG *Fishman Environmental Services*

#35

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: NS4-west County: Marion State: OR Date: 9/19/97 Plot: NS4W-wet
Applicant/Owner: Sect. Township 9S Range 1W City: Stayton
Plot Location: W. of 1st Ave
Topographic Location:
Do normal environmental conditions exist? Y N Explain:
Are soils___ vegetation___ hydrology___ significantly disturbed? N Explain:

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 10 ) | | |
| *1. Phalaris arundinacea | 10 | FACW |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 80 ) | | |
| *1. Salix sp. | 80 | FACorwetter |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 10 ) | | |
| *1. Salix sp. | 10 | FACorwetter |
| 2. | | |
| 3. | | |

Remarks:
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100%
Hydrophytic Vegetation Criterion Met? **YES** **NO** NWI Class PSS

## SOILS

Mapped unit name: Alluvial lands Matches Profile? Y N
Taxonomy: Drainage Class:

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:
Hydric Soil Criterion / Indicators Met? **YES** **NO**

## HYDROLOGY

Depth of inundation:_____ Depth to free water:_____ Depth to saturation:_____ seeps:_____

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| X Water Marks | Recorded Data Available (aerials, gauge)? Explain: | |
| X Drift Lines | Other: | |
| ___Sediment Deposits | Remarks: | |
| X Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? **YES** **NO** | |

**DETERMINATION:** Is this plot a Wetland? **YES** **NO**
Comments:
Determined by: lg cmw *Fishman Environmental Services* rev.6/97

# WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MT3 County: Marion State: OR Date: 6/21/98 Plot: #36 wet sp

Applicant/Owner: Stayton LWI Sect.___ Township___ Range___ City:___

Plot Location: center of PFO

Topographic Location: slight depression

Do normal environmental conditions exist? (Y) N Explain:___

Are soils___ vegetation___ hydrology___ significantly disturbed? (N) Explain:___

## VEGETATION

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Herb** Stratum (% total cover: 100 ) | | |
| ☒ 1. Carex obnupta | 100 | OBL |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |

| *Dominant Plant Species | % Cover | Ind. |
|---|---|---|
| **Shrub/Sapling** Stratum (% total cover: 50 ) | | |
| ☒ 1. Spiraea douglasii | 50 | FACW |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| **Tree** Stratum (% total cover: 100 ) | | |
| ☒ 1. Fraxinus latifolia | 100 | FACW |
| 2. | | |
| 3. | | |

Remarks:___

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100

Hydrophytic Vegetation Criterion Met? (YES) NO NWI Class PFO

## SOILS

Mapped unit name: Courtney gravelly SiCl Matches Profile? Y N

Taxonomy:___ Drainage Class:___

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer

___Histic Epipedon ___Gleyed ___Organic Streaking

___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan

___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks:___

Hydric Soil Criterion / Indicators Met? (YES) NO assumed

## HYDROLOGY

Depth of inundation: 2" Depth to free water:___ Depth to saturation:___ seeps:___

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ☒ Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ☒ Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge)? Explain:___ | |
| ___Drift Lines | Other:___ | |
| ___Sediment Deposits | Remarks:___ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? (YES) NO | |

## DETERMINATION: Is this plot a Wetland? (YES) NO

Comments: 36a veg → mowed grasses; upland

Determined by: cg

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 97047 Site: MT3 County: Marion State: OR Date: 5/21/98 Plot: 36a
Applicant/Owner: LWI Sect. ____ Township 9S Range 1W City: Stayton
Plot Location: 30' west of PLOT 36
Topographic Location: ____
Do Normal Circumstances exist on the site? Y N Explain: ____
Are soils ____ vegetation X hydrology ____ significantly disturbed? N Explain: golf course

**VEGETATION**

| *Dominant Plant Species | % Cover | Ind. | *Dominant Plant Species | % Cover | Ind. |
|---|---|---|---|---|---|
| **Herb** Stratum - % total cover: ____ | | | **Shrub/Sapling** Stratum - % total cover: ____ | | |
| 1. mowed grasses | | | 1. | | |
| 2. | | | 2. | | |
| 3. | | | 3. | | |
| 4. | | | 4. | | |
| 5. | | | 5. | | |
| 6. | | | **Tree** Stratum - % total cover: ____ | | |
| 7. | | | 1. | | |
| 8. | | | 2. | | |
| 9. | | | 3. | | |

Remarks: ____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0 = ____
Hydrophytic Vegetation Criterion Met? YES (NO) assumed seeded for g.c. NWI Class ____

**SOILS**

Mapped unit name: Courtney gravelly SiCl Matches Profile? Y N
Taxonomy: ____ Drainage Class: ____

| Depth | Horizon | Matrix Color | Mottle Abund., Size, Color, on Pores/Peds? | Texture, Struct., Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
___Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: ____
Hydric Soil Criterion / Indicators Met? YES (NO) assumed; drained by golf course

**HYDROLOGY**

Depth of inundation: — Depth to free water: — Depth to saturation: —

| 1° Indicators | 2° Indicators | 2° Indicators |
|---|---|---|
| ___Inundated | ___Oxidized Root Channels in upper 12" | ___Local Soil Survey Data |
| ___Saturated in upper 12" | ___Water-stained leaves | ___FAC-Neutral Test |
| ___Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: ____ | |
| ___Drift Lines | Other: ____ | |
| ___Sediment Deposits | Remarks: ____ | |
| ___Drainage Patterns | Wetland Hydrology Criterion / Indicators Met? YES (NO) drained by golf course | |

**DETERMINATION:** Is this plot a Wetland? YES (NO)
Comments: ____
Determined by: ____ *Fishman Environmental Services*

# APPENDIX 4

## OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY

## (OFWAM) SUMMARY SHEETS

# OFWAM SUMMARY SHEET

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# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W1 Upper Mill Creek
(M1, M2)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | Connected to stream corridor; habitat will improve as site vegetation develops |
| Fish Habitat | Degraded | Stream channelized with limited instream structure |
| Water Quality (pollutant removal) | Intact | greater than ½ acre and connected to Mill Creek; surface ponding evident |
| Hydrologic Control (flood control & water supply) | Degraded | should improve as vegetation in mitigation site develops |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | three functions are degraded |
| Education | Has Educational Uses | public land with parking lot |
| Recreation | Potential | public land; potential for developing trails after mitigation site has become successfully established |
| Aesthetic Quality | Pleasing | easily viewed; naturally occurring smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W1 includes 11.5 acres dominated by an emergent wetland created for wetland mitigation by ODOT. Public parking and access increase potential educational and recreational uses of the site | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W2 Mill Creek east and west of Oakmont Road
and West of Cascade Highway
(M3)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | connected to stream corridor; habitat monotypic |
| Fish Habitat | Degraded | Stream channelized with limited instream structure |
| Water Quality (pollutant removal) | Intact | large floodplain emergent wetland; evidence of ponding |
| Hydrologic Control (flood control & water supply) | Intact | large floodplain emergent wetland; evidence of ponding |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | wildlife habitat and fish habitat could be improved |
| Education | Not Appropriate | No Public Access |
| Recreation | Not Appropriate | No Public Access |
| Aesthetic Quality | Pleasing | Easily viewed from Cascade Highway; natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W2 is a large emergent wetland (34.6 acres) located in the floodplain of Mill Creek. Mill Creek has been channelized and vegetation impacted by agricultural practices. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

**City of Stayton**
**Oregon Freshwater Wetland Assessment Method Summary Sheet**

Wetland Unit W3 Mill Creek between Stayton Middle School and Golf Club Road
(M4, MT2, MT3)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Diverse | Diverse vegetation and high interspersion. Mill Creek flows through wetland forest with adjacent undeveloped upland forest. |
| Fish Habitat | Intact | Mill Creek has natural stream channel with >75% shading |
| Water Quality (pollutant removal) | Intact | surface flow and ponding are evident; located in urbanizing area. |
| Hydrologic Control (flood control & water supply) | Intact | in floodplain; 19.4 acres wetland forest |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | | wildlife habitat diverse |
| Education | Has Educational Uses | located adjacent to Stayton Middle School |
| Recreation | Provides | Numerous trails through forest |
| Aesthetic Quality | Pleasing | Large size; dominated by natural odors and sounds |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W3 is an extensive ash forest (19.4 acres) located in the floodplain of Mill Creek. It contains numerous trails and has public access. MT2 and MT3 are seasonal swales connected to Mill Creek and M4 | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W4 Emergent Wetland North of Mill Creek
(M5)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water; limited interspersion and connectivity |
| Fish Habitat | Not Applicable | No permanent water |
| Water Quality (pollutant removal) | Intact | seasonal ponding evident; >5 acres agricultural land |
| Hydrologic Control (flood control & water supply) | Intact | seasonal ponding; could be connected to main stream channel during seasonal flooding |
| Sensitivity to Future Impacts | Potentially Sensitive | adjacent to urbanizing environment |
| Enhancement Potential* | Little | fish habitat not present |
| Education | Not Appropriate | No public access |
| Recreation | Not Appropriate | No public access |
| Aesthetic Quality | Pleasing | natural odors and sounds |

**Narrative Description of Overall Wetland Functions and Conditions**

W4 includes a 6.4 acre emergent agricultural wetland that is used for pasture and hay. It is located approximately 50-60 feet from Mill Creek; seasonal flooding most likely connects the wetland to Mill Creek.

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W5 Three Forested Wetland Clumps South of Mill Creek
(M6)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water; limited interspersion and connectivity |
| Fish Habitat | Not Applicable | No permanent water |
| Water Quality (pollutant removal) | Intact | seasonal ponding evident; >5 acres agricultural land |
| Hydrologic Control (flood control & water supply) | Intact | seasonal ponding but not connected to main stream channel |
| Sensitivity to Future Impacts | Potentially Sensitive | adjacent to water quality limited stream in an urbanizing environment |
| Enhancement Potential* | Moderate | fish habitat not present |
| Education | Not Appropriate | No public access |
| Recreation | Not Appropriate | No public access |
| Aesthetic Quality | Pleasing | natural odors and sounds |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W5 includes 3 wetland forest clumps (9.8 acres) which are close to Mill Creek and during flood conditions the northern clump could connect to the creek and provide water quality functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

## Wetland Unit W6 Agricultural Depressions South of Mill Creek
(M7 - OFF-SITE)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water; limited interspersion and connectivity |
| Fish Habitat | Not Applicable | |
| Water Quality (pollutant removal) | Degraded | plowed field; limited vegetation |
| Hydrologic Control (flood control & water supply) | Degraded | isolated depressions |
| Sensitivity to Future Impacts | Sensitive | past disturbances have affected its recovery potential |
| Enhancement Potential* | Little | isolated |
| Education | Not Appropriate | No public access |
| Recreation | Not Appropriate | No public access |
| Aesthetic Quality | Pleasing | natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W6 includes emergent depressions in an agricultural field. It provides limited wetland functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

**No wetlands in Wilsonville are "sensitive" to future impacts because no upstream reaches are listed as water quality limited and no non-point sources are identified.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W7 Agricultural Depressions and Swale South of Mill Creek
(M8, MT5)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water; limited interspersion and connectivity |
| Fish Habitat | Degraded | No permanent water |
| Water Quality (pollutant removal) | Intact | seasonal ponding evident; seasonal swale well vegetated; removes pollutants |
| Hydrologic Control (flood control & water supply) | Degraded | surface water flows freely; no restrictions |
| Sensitivity to Future Impacts | Potentially Sensitive | adjacent to water quality limited stream in an urbanizing environment |
| Enhancement Potential* | Moderate | impacted by land use practices |
| Education | Not Appropriate | No public access except in golf course |
| Recreation | Not Appropriate | No public access except in golf course |
| Aesthetic Quality | Moderately Pleasing | natural odors and sounds |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W7 includes emergent agricultural depressions (7 acres) and swale which drain to Mill Creek and during flood conditions could connect to the creek and provide water quality functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

## Wetland Unit W8 Golf Course Ponds
(M9)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | permanent water; emergent fringe |
| Fish Habitat | Degraded | permanent water; isolated |
| Water Quality (pollutant removal) | Degraded | permanent water, isolated, limited emergent vegetation cover |
| Hydrologic Control (flood control & water supply) | Degraded | isolated |
| Sensitivity to Future Impacts | Potentially Sensitive | adjacent to water quality limited stream in an urbanizing environment |
| Enhancement Potential* | High | |
| Education | Potential | public access |
| Recreation | Potential | public access |
| Aesthetic Quality | Moderately Pleasing | natural odors and sounds |

**Narrative Description of Overall Wetland Functions and Conditions**

W8 includes 2 golf course ponds with limited emergent fringe. The ponds provide limited wetland functions.

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W9 South Tributary to Mill Creek east of Cascade Highway
(MT1)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | connected to stream corridor; vegetation in floodplain is monotypic. |
| Fish Habitat | Degraded | tributary is chanelized with limited instream structure and shading |
| Water Quality (pollutant removal) | Intact | >1/2 acre and connected to stream; surface ponding evident |
| Hydrologic Control (flood control & water supply) | Intact | in floodplain, evidence of ponding |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | wildlife habitat and fish habitat are degraded |
| Education | Not Appropriate | No public access |
| Recreation | Not Appropriate | No public access |
| Aesthetic Quality | Pleasing | easily viewed; natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W9 includes approximately 19.2 acres of emergent and open water wetlands in the process of partial development. The large floodplain provides water quality and hydrologic control functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W10 North Tributary to Mill Creek in Golf Course
(MT4)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | connected to Mill Creek; vegetation structure limited |
| Fish Habitat | Degraded | stream channelized; contains limited instream structure and shading |
| Water Quality (pollutant removal) | Degraded | channelized stream in narrow manipulated corridor |
| Hydrologic Control (flood control & water supply) | Degraded | Not in 100 year flood plain, only minor restrictions slow down flow of water |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | all of wetland functions are degraded |
| Education | Potential | public access although golf balls can be hazardous |
| Recreation | Provides | public golf course |
| Aesthetic Quality | Moderately Pleasing | natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W10 (1.3 acres) is a tributary to Mill Creek which flows through the golf course and includes a pond at the west end. Vegetation along the stream banks is typically mowed above the highwater line. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W11 Banks of North Santiam River
(NS1)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Diverse | diverse vegetation, structure and habitat interspersion; adjacent to North Santiam River |
| Fish Habitat | Intact | North Santiam River contains anadromous fish; Gehren Island contains Oregon Chub a federally listed endangered species |
| Water Quality (pollutant removal) | Degraded | forest habitat provides water quality function but degraded since its located in an open space |
| Hydrologic Control (flood control & water supply) | Intact | located within 100 year floodplain of North Santiam River; evidence of ponding; woody vegetation dominant. |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | | provides diverse wildlife habitat |
| Education | Potential | portions of site are publicly owned |
| Recreation | Potential | adjacent to river |
| Aesthetic Quality | Pleasing | natural smells and sounds dominate site |

**Narrative Description of Overall Wetland Functions and Conditions**

W11 includes 13.5 acres of forested wetland adjacent to the North Santiam River. The site provides diverse wildlife habitat and the river provides anadromous fish habitat. A population of Oregon Chub (a federally listed species) occurs on Gehren Island. The location of W11 adjacent to the river and in the 100 year floodplain benefits flood control.

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W12 Wilderness Park
(NS2, NS3)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Diverse | Excellent wildlife habitat, very diverse mosaic of upland/wetland forest with shallow pondings. Turtles observed in NS2a |
| Fish Habitat | Intact | North Santiam River and Salem Water Ditch; Shaded stream with some instream structure |
| Water Quality (pollutant removal) | Degraded | forested wetland habitat provides water quality function but degraded since site is located in open space |
| Hydrologic Control (flood control & water supply) | Intact | in floodplain, woody vegetation dominant, large size. |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | | provides diverse wildlife habitat |
| Education | Has | Wilderness Park is public land with established trail system |
| Recreation | Provides | Wilderness Park is public land with established trail system |
| Aesthetic Quality | Pleasing | Very large natural area with natural smells and sounds. |

**Narrative Description of Overall Wetland Functions and Conditions**

Largest and most diverse wetland-wildlife habitat in Stayton. Includes approximately 80 acres. Anadromous fish in North Santiam River and Salem Water Ditch. High water quality and hydrologic control functions. Numerous trails with public access in Wilderness Park (NS2) and potential for public trails in portions of NS3.

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W13 Banks of North Santiam River
(NS4)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Diverse | Excellent wildlife habitat, diverse forest vegetation; interspersion; adjacent to river |
| Fish Habitat | Intact | North Santiam River; Shaded with boulders and large woody debris instream structure |
| Water Quality (pollutant removal) | Degraded | forested wetland habitat provides water quality function but degraded since site is located in open space |
| Hydrologic Control (flood control & water supply) | Intact | in floodplain, woody vegetation dominant, large size. |
| Sensitivity to Future Impacts | Potentially Sensitive | Forested wetland; slow to recover once disturbed |
| Enhancement Potential* | | provides diverse wildlife habitat |
| Education | Potential | public access east of 1st Avenue; diverse wildlife habitat and fish habitat |
| Recreation | Provides | public access; used by and degraded by mud bikes |
| Aesthetic Quality | Pleasing | large natural area; natural smells and sounds |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W13 contains 13.4 acres of wetland forest and scrub-shrub in the floodplain of the North Santiam River. It provides diverse wildlife habitat. The North Santiam River contains anadromous fish. Water quality functions are important and hydrologic control functions are intact. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W14 Unnamed Tributary to North Santiam River
(NST1, NST2)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | adjacent to North Santiam River |
| Fish Habitat | Degraded | NST2 is a channelized tributary which contains degraded fish habitat. |
| Water Quality (pollutant removal) | Intact | forest habitat provides water quality function |
| Hydrologic Control (flood control & water supply) | Degraded | located within 100 year floodplain of North Santiam River; evidence of ponding; woody vegetation dominant. |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | |
| Education | NA | No Access |
| Recreation | Potential | adjacent to river |
| Aesthetic Quality | Pleasing | natural smells and sounds dominate site |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W14 includes 2.8 acres of forested wetlands along a tributary to the North Santiam River. The PFO provides intact water quality functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W15 Unnamed Tributary to North Santiam River
(NST3)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | adjacent to North Santiam River; diverse vegetation |
| Fish Habitat | Intact | NST3 is a seasonal emergent and forested swale that contributes to fish habitat. |
| Water Quality (pollutant removal) | Intact | Forest habitat provides water quality functions |
| Hydrologic Control (flood control & water supply) | Degraded | located within 100 year floodplain of North Santiam River; evidence of ponding; woody vegetation dominant. |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | |
| Education | Has | River Access; Public land with parking area |
| Recreation | Potential | adjacent to river |
| Aesthetic Quality | Pleasing | natural smells and sounds dominate site |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W15 is a seasonal tributary to the North Santiam River. It includes emergent and forested wetlands. The PFO appears to be a remnant slough channel. W15 provides intact water quality functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

## Wetland Unit W16 West of Gehren Island Road
(NST4)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water, emergent vegetation with a couple of adjacent oak trees |
| Fish Habitat | Not Applicable | seasonal water |
| Water Quality (pollutant removal) | Intact | surface ponding evident; depressions in agricultural field |
| Hydrologic Control (flood control & water supply) | Degraded | not in floodplain |
| Sensitivity to Future Impacts | Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | Little | past land use practices limit recovery potential |
| Education | Not Appropriate | no public access |
| Recreation | Not Appropriate | no public access |
| Aesthetic Quality | Pleasing | natural smells and sounds present |

**Narrative Description of Overall Wetland Functions and Conditions**

W16 is an isolated linear depression in a perennial ryegrass field (1.4 acres). It drains towards the west where it is tiled through the remainder of the field. It provides limited wildlife habitat and hydrologic control functions. Water quality functions are intact.

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W17 Parkview Mitigation Site
(NST5)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water adjacent to a single row of mature upland trees |
| Fish Habitat | Not Applicable | seasonal water |
| Water Quality (pollutant removal) | Intact | stormwater runoff, seasonal ponding |
| Hydrologic Control (flood control & water supply) | Degraded | not located in floodplain |
| Sensitivity to Future Impacts | Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | Moderate | |
| Education | Not Appropriate | small size in residential backyards |
| Recreation | Not Appropriate | mitigation site |
| Aesthetic Quality | Moderately Pleasing | backyard “greenway”; natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W17 is a 0.5 acre Parkview mitigation site. It provides limited wetland functions. It treats stormwater runoff. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

## Wetland Unit W18 Depressions in Agricultural Field
(NST6)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | seasonal water; limited vegetation diversity |
| Fish Habitat | Not Applicable | seasonal water |
| Water Quality (pollutant removal) | Degraded | seasonal ponding; plowed field; limited vegetation |
| Hydrologic Control (flood control & water supply) | Degraded | |
| Sensitivity to Future Impacts | Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | Little | |
| Education | Not Appropriate | |
| Recreation | Not Appropriate | agricultural field |
| Aesthetic Quality | Pleasing | natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W18 includes depressions in a bentgrass field. It provides limited water quality wetland functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W19 Wilco Farmer's Coop
(SD1)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | adjacent to Salem Water Ditch |
| Fish Habitat | Degraded | connected to Salem Water Ditch on South end |
| Water Quality (pollutant removal) | Intact | connected to Salem Water Ditch; evidence of ponding on south end |
| Hydrologic Control (flood control & water supply) | Degraded | not in floodplain; no evidence of ponding |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | |
| Education | Not Appropriate | no public access |
| Recreation | Not Appropriate | no public access |
| Aesthetic Quality | Not Pleasing | one Cowardin class, developed with no landscaping |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W19 includes 0.6 acres emergent wetland adjacent to the Salem Water Ditch. It provides water quality wetland functions. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W20 SW of Shaff Road / Wilco Road
(SD2)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | waterfowl most likely graze in the field during the winter and early spring |
| Fish Habitat | NA | |
| Water Quality (pollutant removal) | Degraded | not in floodplain; evidence of seasonal ponding in plowed field |
| Hydrologic Control (flood control & water supply) | Degraded | not in floodplain; not connected to stream |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | Little | all functions degraded |
| Education | Not Appropriate | no public access |
| Recreation | Not Appropriate | no public access |
| Aesthetic Quality | Pleasing | natural smells and sounds present |

**Narrative Description of Overall Wetland Functions and Conditions**

W20 includes wetland depressions in a ryegrass field (2.9 acres). The ag field collects precipitation and naturally drains towards the pond. Wetland functions are limited since the wetlands aren't naturally connected to a stream and the field is plowed annually.

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# City of Stayton
# Oregon Freshwater Wetland Assessment Method Summary Sheet

Wetland Unit W21 SW of Shaff Road / Wilco Road
(SD3)

| Function | Evaluation Descriptor | Rationale |
|---|---|---|
| Wildlife Habitat | Provides Some | Canada geese and other waterfowl congregate at the pond and most likely graze in the field during the winter and early spring |
| Fish Habitat | Degraded | Salem Water Ditch is used by a variety of native fish including anadromous species. Since water is piped from the ditch to the pond it is likely that some fish end up in the pond; food and cover are limited |
| Water Quality (pollutant removal) | Degraded | not in floodplain |
| Hydrologic Control (flood control & water supply) | Degraded | not in floodplain; not connected to stream |
| Sensitivity to Future Impacts | Potentially Sensitive | surrounded (in UGB) by urbanizing environment |
| Enhancement Potential* | High | all functions degraded |
| Education | Not Appropriate | no public access |
| Recreation | Not Appropriate | no public access |
| Aesthetic Quality | Pleasing | large pond contrasts with surrounding area; natural smells and sounds present |
| **Narrative Description of Overall Wetland Functions and Conditions** | | |
| W21 includes a manmade pond (2.2 acres). Water is piped to the pond from the Salem Water Ditch. Wetland functions are limited since the wetlands aren't naturally connected to a stream and emergent vegetation is limited. | | |

*Skip Enhancement Potential if Wildlife Habitat is diverse.

# APPENDIX 5

## OFWAM ANSWER SHEETS

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W1 ODOT Mitigation Site (M1, M2)

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | b | 21 one class w/5 or greater sp. |
| 2 | b | 23 |
| 3 | b | 24 |
| 4 | c | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | a | 26 |
| Provides habitat for some wildlife species | | |

| **Fish Habitat** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | b | 31 |
| 2 | b | 30 |
| 3 | c | 32 |
| 4 | c | =WH7 |
| 5 | b | =WH8 |
| 6 | b | 29 |
| Lakes and Ponds | | |
| 1 | 0 | 33 |
| 2 | 0 | 35 |
| 3 | 0 | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | 0 | 29 |
| Degraded | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | 6 |
| Degraded | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | a | 17 |
| 5b | a | 26 |
| 6 | b | =SI |
| High enhancement potential | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | a | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | a | 44 |
| 5 | b | 46 |
| 6 | a | 45 |
| Has educational uses | | |

| **Recreation** | | |
|---|---|---|
| 1 | b | 46 |
| 2 | c | 47 |
| 3 | b | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Potential | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W2 Mill Creek east and west of Oakmont & West of Cascade Highway (M3)

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | b | 24 |
| 4 | c | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | a | 26 |
| Provides some | | |

| **Fish Habitat** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | c | 31 |
| 2 | b | 30 |
| 3 | c | 32 |
| 4 | c | =WH7 |
| 5 | b | =WH8 |
| 6 | b | 29 |
| Lakes and Ponds | | |
| 1 | 0 | 33 |
| 2 | 0 | 35 |
| 3 | 0 | 34 |
| 4 | 0 | =WH7 |
| 5 | 0 | =WH8 |
| 6 | 0 | 29 |
| Degraded | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| intact | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | b | 23 |
| 6 | c | 16 |
| 7 | a | 6 |
| Intact | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | a | 27+40; moderate upstream |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | a | 17 |
| 5b | a | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | a | 45 |
| NA | | |

| **Recreation** | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| NA | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W3 Mill Creek between Stayton Middle School and Golf Club Road (M4, MT2, MT3)

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | a | 21 ow, pem, pss, pfo |
| 2 | a | 23 |
| 3 | a | 24 |
| 4 | a | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | a | 26 |
| Diverse | | |

| **Fish Habitat** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | a | 30 |
| 3 | b | 32 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | b | 29 (a downstream) |
| Lakes and Ponds | | |
| 1 | 0 | 33 |
| 2 | 0 | 35 |
| 3 | 0 | 34 |
| 4 | 0 | =WH7 |
| 5 | 0 | =WH8 |
| 6 | 0 | 29 |
| Intact | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a/b | 36 (check) a = Mill Creek; b = PFO |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | a | 23 (check) |
| 6 | b | 16 |
| 7 | c | 6 ag and open space |
| Intact | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | a | channelized historically |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | a | 23 |
| Potentially sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | | WH-FH-WQ-HC |
| 2 | | 36 |
| 3 | | 39 |
| 4 | | 17 |
| 5b | | 26 |
| 6 | | =SI |
| | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | a | 41 |
| 2 | a | 42 |
| 3 | a | WH-FH |
| 4 | a | 44 |
| 5 | a | 46 |
| 6 | a | 45 |
| Has | | |

| **Recreation** | | |
|---|---|---|
| 1 | a | 46 |
| 2 | c | 47 |
| 3 | a | 48 |
| 4 | a | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Provides | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | a | 58 |
| 2 | c | 57 (viewshed) due to forest cover |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W4 Agricultural wetlands north of Mill Creek (M5)

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| NA | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | a | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | a | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | a | 6 |
| Intact | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | a | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | b | WH-FH-WQ-HC No FH |
| 2 | c | 36 |
| 3 | na | 39 |
| 4 | a | 17 |
| 5b | c | 26 |
| 6 | b | =SI |
| Little | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | c | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W5 South tributary to Mill Creek east of Cascade Highway (MT1)

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | b | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | c | 15 |
| 9b | a | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | c | 31 |
| 2 | b | 30 |
| 3 | c | 32 |
| 4 | c | =WH7 |
| 5 | c | =WH8 |
| 6 | b | 29 |
| Lakes and Ponds | | |
| 1 | b | 33 |
| 2 | c | 35 |
| 3 | b | 34 |
| 4 | c | =WH7 |
| 5 | c | =WH8 |
| 6 | b | 29 |
| Degraded | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b/a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | a | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | b/c | 23 (check) |
| 6 | a | 16 |
| 7 | a/b | 6 |
| Intact | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | a | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | c(a) | 36 |
| 3 | (a) | 39 |
| 4 | a | 17 |
| 5b | a | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | a | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | a | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a&b | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W6 Depressions in agricultural field south of Mill Creek (M7) - OFF-SITE

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | b | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| NA | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b | 36 (check) |
| 2 | a | 37 |
| 3 | c | 21 ag depressions |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | b | 17 |
| 4 | a | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | c | |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | b | WH-FH-WQ-HC |
| 2 | c | 36 |
| 3 | NA | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | c | =SI |
| Little | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | c | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W7 Agricultural depressions and swale south of Mill Creek (M8, MT5)

| Wildlife Habitat | | |
|---|---|---|
| 1 | a | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | c | 31 |
| 2 | b | 30 |
| 3 | c | 32 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | c | 29 |
| Lakes and Ponds | | |
| 1 | b | 33 |
| 2 | c | 35 |
| 3 | c | 34 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | c | 29 |
| Degraded | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | c | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a? | 19 |
| 2 | c | 37 |
| 3 | b | 17 |
| 4 | b | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | a | 41 |
| 2 | b | 42 |
| 3 | b | WH-FH |
| 4 | c | 44 |
| 5 | a | 46 |
| 6 | a | 45 |
| Potential | | |

| Recreation | | |
|---|---|---|
| 1 | a | 46 |
| 2 | c | 47 |
| 3 | a | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Provided | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | b | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Moderately Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W8 Golf Course Ponds (M9)

| Wildlife Habitat | | |
|---|---|---|
| 1 | a | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | b | 28 |
| 5 | b | 18 |
| 6 | b | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lakes and Ponds | | |
| 1 | b | 33 |
| 2 | c | 35 |
| 3 | c | 34 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | b | 29 |
| Degraded | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | c | 36 (check) |
| 2 | a | 37 |
| 3 | c | 21 |
| 4 | b | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | b | 17 |
| 4 | a | 38 |
| 5 | b | 23 (check) |
| 6 | c | 16 open space; golf course |
| 7 | b | |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | b | 36 |
| 3 | NA | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | a | 41 |
| 2 | b | 42 |
| 3 | b | WH-FH |
| 4 | a | 44 |
| 5 | a | 46 |
| 6 | a | 45 |
| Potential | | |

| Recreation | | |
|---|---|---|
| 1 | a | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Potential | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | c | 56 |
| Moderately Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W9 Wilderness Park (NS2, NS3)

| Wildlife Habitat | | |
|---|---|---|
| 1 | a | 21 |
| 2 | a | 23 |
| 3 | a | 24 |
| 4 | a | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | b/c | 7+8 |
| 8 | a | 15 |
| 9b | a | 26 |
| Diverse | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | a | 30 |
| 3 | b | 32 |
| 4 | b/c | =WH7 |
| 5 | a | =WH8 |
| 6 | a | 29 |
| Lakes and Ponds | | |
| 1 | b | 33 |
| 2 | a | 35 |
| 3 | a | 34 |
| 4 | b/c | =WH7 |
| 5 | a | =WH8 |
| 6 | a | 29 |
| Intact | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a/b | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | a | 23 (check) |
| 6 | c | 16 |
| 7 | c | along river |
| Intact | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | b | 27+40 |
| 2 | b | 5+27 |
| 3 | a/b | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | a | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | | WH-FH-WQ-HC |
| 2 | | 36 |
| 3 | | 39 |
| 4 | a | 17 |
| 5b | a | 26 |
| 6 | | =SI |
| SKIP | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | a | 41 |
| 2 | a | 42 |
| 3 | a | WH-FH |
| 4 | a | 44 |
| 5 | a | 46 |
| 6 | a | 45 |
| Has | | |

| Recreation | | |
|---|---|---|
| 1 | a | 46 |
| 2 | a | 47 |
| 3 | a | 48 |
| 4 | a | WH |
| 5 | a | 49 |
| 6 | ? | 50 |
| Provides | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | a | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W10 North tributary to Mill Creek in Golf Course (MT4)

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | a | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | c | 26 |
| Some | | |

| **Fish Habitat** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | c | 31 |
| 2 | b | 30 |
| 3 | c | |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | c | 29 |
| Lakes and Ponds | | |
| 1 | b | 33 |
| 2 | c | 35 |
| 3 | c | 34 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | c | 29 |
| Degraded | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | c | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | c | 37 |
| 3 | b | 17 |
| 4 | b | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | open space; golf course |
| Degraded | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | a | 41 |
| 2 | b | 42 |
| 3 | b | WH-FH |
| 4 | c | 44 |
| 5 | a | 46 |
| 6 | a | 45 |
| Potential | | |

| **Recreation** | | |
|---|---|---|
| 1 | a | 46 |
| 2 | c | 47 |
| 3 | a | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Provides | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | b | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Moderately Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W11 Banks of North Santiam River (NS1)

| Wildlife Habitat | | |
|---|---|---|
| 1 | a | 21 |
| 2 | a | 23 |
| 3 | b | 24 |
| 4 | a | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | a | 26 |
| Diverse | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | a | 30 |
| 3 | a | 32 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | a | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Intact | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | c | 38 |
| 5 | a | 23 (check) |
| 6 | c | 16 |
| 7 | b | 6 |
| Intact | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | b | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | a | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | | WH-FH-WQ-HC |
| 2 | | 36 |
| 3 | | 39 |
| 4 | | 17 |
| 5b | | 26 |
| 6 | | =SI |
| SKIP | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | a | 41 |
| 2 | a | 42 |
| 3 | a | WH-FH |
| 4 | c | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| Potential | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | b | 47 |
| 3 | c | 48 |
| 4 | a | WH |
| 5 | a | 49 |
| 6 | a | 50 |
| Potential | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | a | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W12 Wilderness Park (NS2, NS3)

| Wildlife Habitat | | |
|---|---|---|
| 1 | a | 21 |
| 2 | a | 23 |
| 3 | a | 24 |
| 4 | a | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | a | 26 |
| Diverse | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | a | 30 |
| 3 | b | 32 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | a | 29 |
| Lakes and Ponds | | |
| 1 | b | 33 |
| 2 | a | 35 |
| 3 | a | 34 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | a | 29 |
| Intact | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | a | 23 (check) |
| 6 | c | 16 |
| 7 | c | |
| Intact | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | b | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | a | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | | WH-FH-WQ-HC |
| 2 | | 36 |
| 3 | | 39 |
| 4 | | 17 |
| 5b | | 26 |
| 6 | | =SI |
| SKIP | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | a | 41 |
| 2 | a | 42 |
| 3 | a | WH-FH |
| 4 | a | 44 |
| 5 | a | 46 |
| 6 | a | 45 |
| Has | | |

| Recreation | | |
|---|---|---|
| 1 | a | 46 |
| 2 | a | 47 |
| 3 | a | 48 |
| 4 | a | WH |
| 5 | a | 49 |
| 6 | b | 50 |
| Provides | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | a | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W13 Banks of North Santiam River east and west of 1st Avenue (NS4)

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | a | 21 |
| 2 | a | 23 |
| 3 | b | 24 |
| 4 | a | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | a | 15 |
| 9b | a | 26 |
| Diverse | | |

| **Fish Habitat** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | a | 30 |
| 3 | b | 32 |
| 4 | c | =WH7 |
| 5 | a | =WH8 |
| 6 | a | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Intact | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | a | 17+27 |
| 5 | c | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | b | 38 |
| 5 | a | 23 (check) |
| 6 | c | 16 |
| 7 | c | 6 |
| Intact | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | b | |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | c | =WQ5 |
| 5 | c | 20 |
| 6 | a | 23 |
| Potentially Sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | | WH-FH-WQ-HC |
| 2 | | 36 |
| 3 | | 39 |
| 4 | | 17 |
| 5b | | 26 |
| 6 | | =SI |
| SKIP | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | a | 41 |
| 2 | b | busy road |
| 3 | a | WH-FH |
| 4 | a | 44 |
| 5 | b | 46 |
| 6 | b | 45 |
| Potential | | |

| **Recreation** | | |
|---|---|---|
| 1 | b | 46 |
| 2 | a | 47 |
| 3 | b | 48 |
| 4 | a | WH |
| 5 | a | 49 |
| 6 | b | 50 |
| Provides | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | b | 55 |
| 6 | b | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W14 Tributary to North Santiam River ( NST2) - OFF-SITE

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | a | 21 |
| 2 | a | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| **Fish Habitat - adjacent to mouth** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | b | 30 |
| 3 | c | |
| 4 | c | =WH7 |
| 5 | b | =WH8 |
| 6 | b | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Degraded | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | b | 17 |
| 4 | c | 38 |
| 5 | a | 23 (check) |
| 6 | c | 16 |
| 7 | b | 6 |
| Degraded | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | a | 23 |
| Potentially Sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | b | =SI |
| High Enhancement Potential | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| Not Appropriate | | |

| **Recreation** | | |
|---|---|---|
| 1 | c | 46 |
| 2 | b | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Potential | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W15 Seasonal swale crossing Gehren Island Road (NST3)

| **Wildlife Habitat** | | |
|---|---|---|
| 1 | a | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | a | 26 |
| Some | | |

| **Fish Habitat** | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | a | 31 |
| 2 | a | 30 |
| 3 | a | 32 |
| 4 | c | =WH7 |
| 5 | b | =WH8 |
| 6 | a | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Intact | | |

| **Water Quality (pollutant removal)** | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| **Hydrologic Control (flood control & water supply)** | | |
|---|---|---|
| 1 | a | 19 |
| 2 | a | 37 |
| 3 | b | 17 |
| 4 | c | 38 |
| 5 | b | 23 (check) |
| 6 | c | 16 |
| 7 | b | 6 |
| Degraded | | |

| **Sensitivity to Future Impacts** | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| **Enhancement Potential*** | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | a | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| **Education** | | |
|---|---|---|
| 1 | a | 41 |
| 2 | a | 42 |
| 3 | a | WH-FH |
| 4 | b | 44 |
| 5 | a | 46 |
| 6 | b | 45 |
| Has educational uses | | |

| **Recreation** | | |
|---|---|---|
| 1 | a | 46 |
| 2 | b | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| Potential | | |

| **Aesthetic Quality** | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | a | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W16 West of Gehren Island Road (NST4)

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | b | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lak | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| NA | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | b | 19 |
| 2 | a | 37 |
| 3 | b | 17 |
| 4 | b | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 isolated |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | b | WH-FH-WQ-HC |
| 2 | c | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | c | =SI |
| Little | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | c | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W17 Parkview Mitigation (NST5)

| Wildlife Habitat | | |
|---|---|---|
| 1 | a | 21 |
| 2 | a | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | b | 27 |
| 7 | c | urban stormwater runoff |
| 8 | c | 15 |
| 9b | b | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| NA | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | a | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | b | 19 |
| 2 | b | 37 |
| 3 | b | 17 |
| 4 | b | 38 |
| 5 | a | 23 (check) |
| 6 | a | 16 |
| 7 | a | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | isolated; stormwater |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | a | =WQ5 |
| 5 | a | 20 |
| 6 | a | 23 |
| Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | b | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | b | 26 |
| 6 | c | =SI |
| Moderate | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | c | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | c | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Moderately Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W18 Depressions in agricultural field South of East Santiam Street (NST6) - OFF-SITE

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | b | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lak | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| NA | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b | 36 (check) |
| 2 | a | 37 |
| 3 | c | 21 |
| 4 | a | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | b | 19 |
| 2 | a | 37 |
| 3 | a | 17 |
| 4 | a | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 isolated |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | b | WH-FH-WQ-HC |
| 2 | c | 36 |
| 3 | NA | 39 |
| 4 | a | 17 |
| 5b | c | 26 |
| 6 | c | =SI |
| Little Enhancement Potential | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | c | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W19 Wilco Farmer's Coop (SD1)

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | c | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | a | 27 south end |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | a | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers: adjacent stream | | |
| 1 | c | 31 |
| 2 | b | 30 |
| 3 | c | 32 |
| 4 | c | =WH7 |
| 5 | b | =WH8 |
| 6 | a | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Degraded | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b | 36 (check) |
| 2 | a | 37 |
| 3 | a | 21 |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Intact | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | a | 19 |
| 2 | c | 37 |
| 3 | b | 17 |
| 4 | a | 38 |
| 5 | c | 23 (check) |
| 6 | b | 16 |
| 7 | a | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | b | 27+40 |
| 2 | b | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | b | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | c | 36 |
| 3 | NA | 39 |
| 4 | b | 17 |
| 5b | a | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | c | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | c | 58 |
| 2 | b | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | c | 52 |
| 5 | a | 55 |
| 6 | a | 56 |
| Not Pleasing | | |

# Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W20 SW of Shaff / Wilco Roads (SD2)

| Wildlife Habitat | | |
|---|---|---|
| 1 | b | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | c | 28 |
| 5 | b | 18 |
| 6 | b | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lakes and Ponds | | |
| 1 | | 33 |
| 2 | | 35 |
| 3 | | 34 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| NA | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | b | 36 (check) |
| 2 | a | 37 |
| 3 | c | 21 |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | b | 19 |
| 2 | a | 37 |
| 3 | b | 17 |
| 4 | a | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 isolated |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | b | WH-FH-WQ-HC |
| 2 | c | 36 |
| 3 | NA | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | c | =SI |
| Little Enhancement Potential | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | b | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | c | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | c | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Pleasing | | |

## Stayton Local Wetlands and Riparian Inventory
## Oregon Freshwater Wetland Assessment Questions - Answer Sheet
**(4/96 edition with 7/97 addendum)**

WETLAND W21 SW of Shaff / Wilco Roads (SD3)

| Wildlife Habitat | | |
|---|---|---|
| 1 | c | 21 |
| 2 | b | 23 |
| 3 | c | 24 |
| 4 | a D? | 28 |
| 5 | a | 18 |
| 6 | a | 27 |
| 7 | c | 7+8 |
| 8 | b | 15 |
| 9b | c | 26 |
| Some | | |

| Fish Habitat | | |
|---|---|---|
| Streams and Rivers | | |
| 1 | | 31 |
| 2 | | 30 |
| 3 | | 32 |
| 4 | | =WH7 |
| 5 | | =WH8 |
| 6 | | 29 |
| Lakes and Ponds | | |
| 1 | c | 33 |
| 2 | c | 35 |
| 3 | c | 34 |
| 4 | c | =WH7 |
| 5 | b | =WH8 |
| 6 | c | 29 |
| Degraded | | |

| Water Quality (pollutant removal) | | |
|---|---|---|
| 1 | a | 36 (check) |
| 2 | a ? | 37 |
| 3 | c | 21 |
| 4 | b | 17+27 |
| 5 | b | 15 (WH8 c=a, a=c, b=b) |
| 6 | a | 7+8 (WH7 c=a, a=c, b=b) |
| Degraded | | |

| Hydrologic Control (flood control & water supply) | | |
|---|---|---|
| 1 | b | 19 |
| 2 | c | 37 |
| 3 | b | 17 |
| 4 | b | 38 |
| 5 | b | 23 (check) |
| 6 | b | 16 |
| 7 | b | 6 |
| Degraded | | |

| Sensitivity to Future Impacts | | |
|---|---|---|
| 1 | a | 27+40 |
| 2 | a | 5+27 |
| 3 | a | =WQ6 |
| 4 | b | =WQ5 |
| 5 | a | 20 |
| 6 | c | 23 |
| Potentially Sensitive | | |

| Enhancement Potential* | | |
|---|---|---|
| 1 | a | WH-FH-WQ-HC |
| 2 | a | 36 |
| 3 | a | 39 |
| 4 | b | 17 |
| 5b | c | 26 |
| 6 | b | =SI |
| High | | |

*skip if WH provides diverse

| Education | | |
|---|---|---|
| 1 | c | 41 |
| 2 | a | 42 |
| 3 | b | WH-FH |
| 4 | b | 44 |
| 5 | c | 46 |
| 6 | a | 45 |
| NA | | |

| Recreation | | |
|---|---|---|
| 1 | c | 46 |
| 2 | c | 47 |
| 3 | c | 48 |
| 4 | b | WH |
| 5 | b | 49 |
| 6 | b | 50 |
| NA | | |

| Aesthetic Quality | | |
|---|---|---|
| 1 | b | 58 |
| 2 | a | 57 (viewshed) |
| 3 | a | 53+54 |
| 4 | b | 52 |
| 5 | a | 55 |
| 6 | b | 56 |
| Pleasing | | |

# APPENDIX 6

## OFWAM ASSESSMENT QUESTIONS AND CHARACTERIZATION WORKSHEETS

Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)
(bold questions =field)

Wetland (M1, M2) W1
Observers cg + emw
Field Date 7/29/97

7.29.97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses (in progress) | | | 4c |
| 5. Other highway | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

11+ acres

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6ft) | | | | 1d (beneath PFO) |
| Emergent (EM) | 2a | | | |
| Scrub-shrub (SS) | | | | 3d |
| Forested (FO) | | | | 4d |

22 How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| b | a. high | b. moderate | c. low |
|---|---|---|---|

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

27 How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| a | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

**Fisheries Habitat** Wetland W1

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

| | | | |
|---|---|---|---|
| b (a. downstr) | a. salmon, trout or sensitive species are present at some time during the year | b. other fish species are present at some time during the year | c. no species are present at any time during the year |

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

Vertical slope ag. area possibly ditched historically

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

| | | | | |
|---|---|---|---|---|
| a | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, ~~large rocks or boulders?~~

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a drift lines @ 1' | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)? raised surf.

| | | | |
|---|---|---|---|
| b slight berm | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a slight lip on inflow | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| a (?) see note | a. yes | b. no |

? old channelization

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation? mit. site adjacent to park + ride

| | | | |
|---|---|---|---|
| a | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

upland buffer between stream and WL

Riparian

44 Is there existing physical public access to features listed in question 43? Wetland W1

| | | | |
|---|---|---|---|
| a | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| a | a. yes | b. no | (list physical barriers) – by car |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| b | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| c | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| b ~~or c~~ | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| — c | a. yes (all or part of yea | b. no | c. not applicable |

not enough water?

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| a/b where cons. corridor | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| c | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

5. How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

~~but~~ can see corridor of PFO Mill Creek

**Staytor Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland M-3 W2
Observers CG CMW
Field Date 7/29/97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | 1 b * | |
| 2. Agriculture | | 2 b * | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4 a | | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1 c |
| 2. Agriculture | 2 a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4 c |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1 a | | |
| 2. Agriculture | | b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | b | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| 1 Open water (OW >6.6ft) | | | | 1 d |
| 2 Emergent (EM) | 2 a | | | |
| 3 Scrub-shrub (SS) | | | | 3 d |
| 4 Forested (FO) | | | | |

**22** How many wetland plant species are present (urban areas)? ash, Sorrel, reed, carex

| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| b | a. high | b. moderate | c. low |
|---|---|---|---|

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**27** How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

**28** Estimate area of unvegetated, open water within the wetland.

| a | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Mill Creek provides some but prob < 1.5 ac

**Fisheries Habitat** Wetland W2

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

| | | | |
|---|---|---|---|
| a/b almost b upper mile | a. salmon, trout or sensitive species are present at some time during the year | b. other fish species are present at some time during the year | c. no species are present at any time during the year |

downstream

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| c | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

not shaded @ Oakmont except RCG

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

couple logs falling in

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

perhaps some seeps S+N 2 inflows

there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| a channelized | a. yes | b. no |

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

upl fo + ag land

44 Is there existing physical public access to features listed in question 43? Wetland W2

| | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |
|---|---|---|---|
| b | | | |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | a. yes | b. no | (list physical barriers) Oakmont Rd |
|---|---|---|---|
| a | | | |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |
|---|---|---|---|
| c | | | |

**Recreation**

47 Is the wetland accessible by boat?

| | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |
|---|---|---|---|
| C | | | |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |
|---|---|---|---|
| C | | | |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | a. yes (all or part of yea | b. no | c. not applicable |
|---|---|---|---|
| ? C | | | |

Is hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | a. yes (all or part of yea | b. no |
|---|---|---|
| ? B | | |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | a. significant contrast | b. limited contrast | c. little or no contrast |
|---|---|---|---|
| | | | |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |
|---|---|---|---|
| a | | | |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | a. yes | b. no |
|---|---|---|
| — | | |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |
|---|---|---|---|
| a | | | |

56 What noises are audible at the primary viewing location(s)?

| | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |
|---|---|---|---|---|
| b | | | | |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | a. >50% | b. bet. 25% & 50% | c. <25% |
|---|---|---|---|
| a | | | |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | a. > two | b. two | c. one |
|---|---|---|---|
| b | | | |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland (M4) W3
Observers CG, CMW
Field Date 7/30/97
Stayton Mid School

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space 3c | | 1b | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage? 19.4ac

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | 1b | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| PSS beneath canopy | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | PFO a | | | |

22 How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| a | a. woody (FO & SS) 95 | b. emergent and ponding, or open water only (EM w/ water or OW) 5 | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| a | a. high | b. moderate | c. low |
|---|---|---|---|

w/ v Mosaic

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

27 How is the wetland connected to other wetlands?

| a & b | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| b | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland (MH) W3

**Fisheries Habitat**

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

| | | | |
|---|---|---|---|
| a/b Mill creek | a. salmon, trout or sensitive species are present at some time during the year | b. other fish species are present at some time during the year | c. no species are present at any time during the year |

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| a | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| (a) - Mill Ck (b) | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

for FO

37 there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

just Mill Creek flood debris 4-6' high

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| not primary except in flood | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| (a) b | a. yes | b. no |

- check probably historically but seems natural now

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| a | a. yes | b. yes, but only by permission | c. no, access not allow |

public school property

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

Wetland W3

44 Is there existing physical public access to features listed in question 43?

| | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |
|---|---|---|---|
| a | | | |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | a. yes | b. no | (list physical barriers) soft trail only |
|---|---|---|---|
| a | | | |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |
|---|---|---|---|
| a drive to bridge from school | | | |

**Recreation** High

47 Is the wetland accessible by boat?

| | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |
|---|---|---|---|
| No (c) | | | |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |
|---|---|---|---|
| a | | | |

nice jogging trail thru WL areas + UPL - natural soil surface

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | a. yes (all or part of yea | b. no | c. not applicable |
|---|---|---|---|
| ? | | | |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | a. yes (all or part of yea | b. no |
|---|---|---|
| ? | | |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | a. significant contrast | b. limited contrast | c. little or no contrast |
|---|---|---|---|
| | | | |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |
|---|---|---|---|
| a | | | |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |
|---|---|---|---|
| a | | | |

56 What noises are audible at the primary viewing location(s)?

| | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |
|---|---|---|---|---|
| b | | | | |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | a. >50% | b. bet. 25% & 50% | c. <25% due to dense forest cover |
|---|---|---|---|
| c | | | |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | a. > two | b. two | c. one PEO |
|---|---|---|---|
| a | | | |

Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)
(bold questions =field)

Wetland M5 W4
Observers CG
Field Date 5/21/98

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | 1 b | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | 4b | |
| 5. Other | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | 1b | |
| 2. Agriculture | | 2b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| (b) a? | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

? probably connected to Mill Creek during flood

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | 2a | | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

22 How many wetland plant species are present (urban areas)?

| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| c | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

grazed / mowed

27 How is the wetland connected to other wetlands?

| a? a b (seasonal flood) | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| d | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

**Fisheries Habitat** Wetland_____

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

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

**treams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

37 s there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

ponding - up to 6" in May 98 in places

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| a | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| — | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| a ? | a. yes | b. no |

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent o the wetland? (list type and extent)

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

Wetland_____

44 Is there existing physical public access to features listed in question 43?

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| C | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| c | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland M6 W5
Observers
Field Date 7/29/97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | 1b | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

FO s of GC
1520

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other GC | 6a | | |

**17** What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| b | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | (a) understt | | | |
| Scrub-shrub (SS) | (a) in | | | |
| Forested (FO) | a 95% | | | |

**22** How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| a | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37) w/ FO

| C | a. high | b. moderate | c. low |
|---|---|---|---|

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| b. by field/forest | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**27** How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

? off site

**28** Estimate area of unvegetated, open water within the wetland.

| d | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland W5

44 Is there existing physical public access to features listed in question 43?

| | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |
|---|---|---|---|
| b | | | |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | a. yes | b. no | (list physical barriers) |
|---|---|---|---|
| b | | | |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |
|---|---|---|---|
| c | | | |

**Recreation**

47 Is the wetland accessible by boat?

| | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |
|---|---|---|---|
| c | | | |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |
|---|---|---|---|
| c | | | |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | a. yes (all or part of yea | b. no | c. not applicable |
|---|---|---|---|
| | | | |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | a. yes (all or part of yea | b. no |
|---|---|---|
| | | |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | a: significant contrast | b. limited contrast | c. little or no contrast |
|---|---|---|---|
| | | | |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |
|---|---|---|---|
| a+b | | | |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)** – 15 none

55 What odors are present at the primary viewing location(s)?

| | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |
|---|---|---|---|
| a | | | |

56 What noises are audible at the primary viewing location(s)?

| | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |
|---|---|---|---|---|
| b | | | | |

5. How much of the wetland is visible from the viewing area(s)? Describe the view.

| | a. >50% | b. bet. 25% & 50% | c. <25% |
|---|---|---|---|
| c | | | |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | a. > two | b. two | c. one |
|---|---|---|---|
| 0 | | | |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland M7 W6
Observers cg cmw
Field Date

## Wetland Structure and Landscape

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

Off site Ag field

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|
| b | | | |

isolated depressions

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| b | | | |

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

## Wetland Habitat

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | b. plowed in | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

**22** How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| b ? | | | |

**23** What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| b | | | |

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| | | | |

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c | | | |

**27** How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| b | | | |

**28** Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| d | | | | |

Wetland W6

**Fisheries Habitat**

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

37 Is there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

aerial photo wet spots

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| a | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| — | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| C | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

44 Is there existing physical public access to features listed in question 43? Wetland W6

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) too far from roads |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| C | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b ag. land | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| c | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland MB W7
Observers
Field Date 7/29/97
yvonne wet

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| (1.) Open Space | | ~~X~~ 1b | |
| 2. Agriculture | | 2b | |
| 3. Exclusive Forest Use | | | |
| (4.) Developed uses | | 4b | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| b | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space/Park | 1a | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | a | | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

**22** How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

— dry now

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

depression in grass field

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| c | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

— ag field mowed

**27** How is the wetland connected to other wetlands?

| (a)/b | a. connected within 3 miles by surface water Intermittent st. | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

**28** Estimate area of unvegetated, open water within the wetland.

| d | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland M16

**Fisheries Habitat**

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

| | | | |
|---|---|---|---|
| way down stream a/b | a. salmon, trout or sensitive species are present at some time during the year | b. other fish species are present at some time during the year | c. no species are present at any time during the year |

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| D | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

37 Is there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| b ponding only no flooding evidence | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| b headwater | a. yes | b. no |

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| b bull | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

ag field, forest

44 Is there existing physical public access to features listed in question 43? Wetland 1/14

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| c | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| c | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| c | a. yes (all or part of yea | b. no | c. not applicable |

's hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

5. How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| b | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| c | a. > two | b. two | c. one |

Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)
(bold questions =field)

Wetland Mg W8
Observers cg cmw
Field Date

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

golf course ponds

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|
| b | | | |

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| b | | | |

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | 1a | | | |
| Emergent (EM) | | | 2c | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

**22** How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| b | | | |

**23** What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| b | | | |

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| | | | |

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c | | | |

mowed golf course

**27** How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| b | | | |

**28** Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| c | | | | |

Wetland_____

**Fisheries Habitat**

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

| | | | |
|---|---|---|---|
| b ? maybe gambusia | a. salmon, trout or sensitive species are present at some time during the year | b. other fish species are present at some time during the year | c. no species are present at any time during the year |

**treams connected to the wetland**

3. What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| b | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| c | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| C artificial + (groundwater) | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

3 there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a always wet | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| a | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| — | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| a | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| b golf balls | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent ) the wetland? (list type and extent)

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

other ponds & tribs nearby

44 Is there existing physical public access to features listed in question 43? Wetland_____

| | | | |
|---|---|---|---|
| a | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| a | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| a | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| c | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| b/c | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| c | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

5. How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |



OW + PEM

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland Grad + Lo (N) Dpt
Observers CG, CMW
Field Date 7/30/97
MT1 W9
Check del ✓
(after development)

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture part. crop | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c (under const.) → |
| 5. Other Hwy | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | 2b | ~~2c~~ |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | ~~4a~~ | | ~~4c~~ 4c |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | d OW |
| ~~Emergent (EM)~~ | Em (a) | | | |
| Scrub-shrub (SS) | | | | d PFO ? |
| Forested (FO) | | | | |

22 How many wetland plant species are present (urban areas)?

| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

27 How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| c | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland W9

**Fisheries Habitat**

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| c | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| b | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation? POTR THPL Salix FRLA

| | | | |
|---|---|---|---|
| b | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b/a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

? there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a ponding | a. yes (describe) (aerial) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| (a) | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

ag

44 Is there existing physical public access to features listed in question 43? Wetland W9

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| a gravel p. lot | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| c (Cascade Hwy) | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| c | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| b | a. yes (all or part of yea | b. no | c. not applicable |

Is hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| a+(b) | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| c (Cascade Hwy) | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

How much of the wetland is visible from the viewing area(s)? Describe the view. gravel p. lot

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | | |
|---|---|---|---|---|
| a | a. > two | b. two | c. one | pond, PEM, PFO |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland MT-4 WIC
Observers CG + CP, W
Field Date 7/30/97

Trib in GC to pond + then Mill Ck

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| Open Space | | | 1c: golf course |
| Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| (5) Other | | | Golf Course |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| (2) Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| b | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

1.3ac

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

| a (?) | a. yes | b. no |
|---|---|---|

Not on FP map but area floods annually

(20) What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| (1) Open Space | | | 1c public gc. |
| 2. Agriculture | | | |
| . Exclusive Forest Use | | | |
| . Developed uses | | | |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| (1c) Open water (OW >6.6ft) | | | 20% c OW | |
| Emergent (EM) (2a) | 80% a EM | | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | some @ E end + 5%? | | | |

22 How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| (c) mowed | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

27 How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

(28) Estimate area of unvegetated, open water within the wetland.

| (d) | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

**Fisheries Habitat** Wetland WD

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

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

**treams connected to the wetland**

30 What is the physical character of the stream channel?

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

linear channeli

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

| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |
|---|---|---|---|---|
| d | | | | |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | a. yes | b. cannot be determine | c. no |
|---|---|---|---|
| b | | | |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | a. 60% or more | b. bet. 20% & <60% | c. <20% |
|---|---|---|---|
| a c | | | |

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

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

**Wetland Hydrology**

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

| | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |
|---|---|---|---|
| a | | | |

there evidence of flooding or ponding during a portion of the growing season?

| | a. yes (describe) | b. unable to determine or not applicable | c. no |
|---|---|---|---|
| c | | | |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |
|---|---|---|---|
| b | | | |

39 If the primary source of water is surface flow, is the inflow restricted?

| | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |
|---|---|---|---|
| (a) | | | |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

channely

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation? golf course

| | a. yes | b. yes, but only by permission | c. no, access not allow |
|---|---|---|---|
| a | | | |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |
|---|---|---|---|
| b | | | |

errant golf balls

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent the wetland? (list type and extent)

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

golf course

44 Is there existing physical public access to features listed in question 43? Wetland WTO

| | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |
|---|---|---|---|
| NA/C | | | |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | a. yes | b. no | (list physical barriers) |
|---|---|---|---|
| a golf course | | | |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |
|---|---|---|---|
| a | | | |

**Recreation**

47 Is the wetland accessible by boat?

| | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |
|---|---|---|---|
| NO C | | | |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the ~~wetland?~~ gc

| | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |
|---|---|---|---|
| a | | | |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | a. yes (all or part of yea | b. no | c. not applicable |
|---|---|---|---|
| b/c | | | |

; hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | a. yes (all or part of yea | b. no (golf course) |
|---|---|---|
| b | | |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | a. significant contrast | b. limited contrast | c. little or no contrast |
|---|---|---|---|
| | | | |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |
|---|---|---|---|
| b | | | |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |
|---|---|---|---|
| a | | | |

56 What noises are audible at the primary viewing location(s)?

| | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |
|---|---|---|---|---|
| C | | | | |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | a. >50% | b. bet. 25% & 50% | c. <25% |
|---|---|---|---|
| b | | | |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | a. > two | b. two | c. one |
|---|---|---|---|
| b | | | |

Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)
(bold questions =field)

Wetland Green Isle WI
Observers CG, CMW
Field Date 9/19/97

13.8 ac NS1

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| Open Space | | | 1c |
| Agriculture | | 2 b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4 a | | |
| 5. Other | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | 1 b | |
| 2. Agriculture | | 2 b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| a (15+) | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a N Santiam River | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | 4 b UTF | |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | 4a (PSS+PFO) | | | |

22 How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| a | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| b | a. high | b. moderate | c. low |
|---|---|---|---|

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

27 How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| a (River) | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

what about river?

Wetland WH

**Fisheries Habitat**

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

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

**treams connected to the wetland**

30 What is the physical character of the stream channel? Intermittent

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

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

| | | | | |
|---|---|---|---|---|
| a | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

3 there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a flood debris (3') | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| c | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| (a ——— ) | a. yes | b. no Intermittent channel culverted for access roads |

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| a from River | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water) access road for Geren Island

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent the wetland? (list type and extent)

| | | |
|---|---|---|
| a small up- forest; ag field seasonal streams | a. yes | b. no |

44 Is there existing physical public access to features listed in question 43? Wetland W11

| | | | |
|---|---|---|---|
| c | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| c | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| b | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| a (River) | a. yes (all or part of yea | b. no | c. not applicable |

Is hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| ? | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| a (agfield) | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| a | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b trucks from Green Island | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| b | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| a | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

W12 Wetland Wildlife Park + Island + Pond to South
Observers
Field Date 6/17/97, 9/19/97

NS2 Revised
NS3

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | 4b UTF | |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) Qac <10% | | | 1c | |
| Emergent (EM) 11 ac | | | 2c | |
| Scrub-shrub (SS) 32 | | 3b | | |
| Forested (FO) | | 4b | | |

**22** How many wetland plant species are present (urban areas)?

| a | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| a | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| a | a. high | b. moderate | c. low |
|---|---|---|---|

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**27** How is the wetland connected to other wetlands?

| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

**28** Estimate area of unvegetated, open water within the wetland. pond @ wildlife park + treatment area

| b? a? | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland W12

**Fisheries Habitat**

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| a | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| b | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| a | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

3 there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b (mosaic) | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| a | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

upland forest, N.S. River

Wetland W12

44 Is there existing physical public access to features listed in question 43?

| | | | |
|---|---|---|---|
| a | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| a | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| a | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| a | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| a | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| a | a. yes (all or part of yea | b. no | c. not applicable |

50 Is hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| ? | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| a | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| a | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| c | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| a | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland W13 (NS4)
Observers
Field Date 9/19/97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1 c |
| 2. Agriculture | | 2b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other Water Treatment | 4/5a | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1 c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| | | | |
|---|---|---|---|
| a (?) 13.5 | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | | | |
|---|---|---|---|
| a | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1 c |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | 4b (LR) | |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | + Rivi | | | |
| Emergent (EM) | | | | |
| Scrub-shrub (SS) | 3a | | | |
| Forested (FO) | 4a | | | |

22 How many wetland plant species are present (urban areas)?

| | | | |
|---|---|---|---|
| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |

23 What is the dominant wetland vegetation cover?

| | | | |
|---|---|---|---|
| a | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | | | |
|---|---|---|---|
| b | a. high | b. moderate | c. low |

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | | | |
|---|---|---|---|
| a | a. >40% | b. bet. 10% & 40% | c. <10% |

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | | | |
|---|---|---|---|
| a | a. >40% | b. bet. 10% & 40% | c. <10% |

27 How is the wetland connected to other wetlands?

| | | | |
|---|---|---|---|
| a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |

28 Estimate area of unvegetated, open water within the wetland.

| | | | | |
|---|---|---|---|---|
| a (?) | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |

Wetland W13

**Fisheries Habitat**

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |
|---|---|---|---|---|
| a | | | | |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

| | a. >25% | b. bet. 10% & 25% | c. <10% |
|---|---|---|---|
| b ? | | | |

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

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

| | a. yes | b. cannot be determine | c. no |
|---|---|---|---|
| | | | |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | a. 60% or more | b. bet. 20% & <60% | c. <20% |
|---|---|---|---|
| | | | |

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

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

**Wetland Hydrology**

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

| | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |
|---|---|---|---|
| a | | | |

37 Is there evidence of flooding or ponding during a portion of the growing season?

| | a. yes (describe) | b. unable to determine or not applicable | c. no |
|---|---|---|---|
| a | | | pond in forest E of 1st Ave. |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |
|---|---|---|---|
| b | | | |

39 If the primary source of water is surface flow, is the inflow restricted?

| | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |
|---|---|---|---|
| a | | | |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | a. yes | b. yes, but only by permission | c. no, access not allow |
|---|---|---|---|
| a | | | |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |
|---|---|---|---|
| b 1st Ave | | | |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

River, Ag land

44 Is there existing physical public access to features listed in question 43? Wetland W3

| | | | |
|---|---|---|---|
| a | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) No parking |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| b | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| a | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| b | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| a | a. yes (all or part of yea | b. no | c. not applicable |

Is hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| ? | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| a | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| a | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| b | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| C | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

How much of the wetland is visible from the viewing area(s)? Describe the view. from the road

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

W14

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland NST2 (NST1)
Observers CG CMW
Field Date 9/19/97

**Wetland Structure and Landscape**

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

Off-site assessment

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|
| b | | | |

2.8ac

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| a | | | |

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | PFO - PEM? | | | |

**22** How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| b | | | |

**23** What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| a | | | |

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| | | | |

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c | | | |

How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| a | | | |

28 Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| d | | | | |

Wetland NST2 W14 (NST1)

**Fisheries Habitat**

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

| | | | |
|---|---|---|---|
| River a / WL b | a. salmon, trout or sensitive species are present at some time during the year | b. other fish species are present at some time during the year | c. no species are present at any time during the year |

**Streams connected to the wetland**

30 What is the physical character of the stream channel? N Santiam

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

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

| | | | | |
|---|---|---|---|---|
| a | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

37 Is there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| c | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

| | | |
|---|---|---|
| a ag land | a. yes | b. no |

W14

**44** Is there existing physical public access to features listed in question 43? Wetland N ST2 (NST)

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

**45** Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

**46** Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| c | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

**47** Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| b | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

**48** Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| c | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| ? | a. yes (all or part of yea | b. no |

**Aesthetics**

**51** SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

**52** For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

**53** Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

**54** If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

**55** What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

**56** What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| a | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

**57** How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

**58** How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)** W15

(bold questions =field)

Wetland NST3

Observers

Field Date

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | | 2b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | 1c |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|
| b | | | |

1ac

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| a | | | |

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | 1b | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | 2b | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | 1a | | | |

**22** How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| b | | | |

**23** What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| b | | | |

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| | | | |

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| a | | | |

How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| a | | | |

28 Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| d | | | | |

**Fisheries Habitat** Wetland NST3 WS

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| a | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| — | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| — | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

| | | | |
|---|---|---|---|
| — | a. >25% | b. bet. 10% & 25% | c. <10% |

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

s there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| a | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent o the wetland? (list type and extent)

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

44. Is there existing physical public access to features listed in question 43? Wetland NST3 W15

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45. Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) No trails, Brushy |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| a | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| b | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| c | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| a | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)
(bold questions =field)

Wetland NST4 W16
Observers
Field Date
Sid's field

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| b (mitig) | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| b | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| Developed uses | | | 4c (UTF) |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| 1 Open water (OW >6.6ft) | | | | |
| 2 Emergent (EM) | 2a | | | |
| 3 Scrub-shrub (SS) | | | | 3d |
| 4 Forested (FO) | | | | |

22 How many wetland plant species are present (urban areas)?

| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

23 What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| c | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| c | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

27 How is the wetland connected to other wetlands?

| b | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| d | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland W16

**Fisheries Habitat**

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b ? | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

s there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b (field tile) | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| C | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

Wetland W16

44 Is there existing physical public access to features listed in question 43?

| | | | |
|---|---|---|---|
| C | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| C | a. yes (all or part of yea | b. no | c. not applicable |

's hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| ? b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| C | a: significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| a | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland NST-5 WF
Observers MH SFC
Field Date

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c RES |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| ? 0.7 b | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| b | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | 2a | 2b | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | 4a 4c | 4b | | |

**22** How many wetland plant species are present (urban areas)?

| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| a | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| b | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**27** How is the wetland connected to other wetlands?

| b | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

**28** Estimate area of unvegetated, open water within the wetland.

| d | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland W17

**Fisheries Habitat**

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

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

**Streams connected to the wetland**

30 What is the physical character of the stream channel? ∅

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

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

| | | | | |
|---|---|---|---|---|
| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

37 there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| b | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c (b?) | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent the wetland? (list type and extent)

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

Wetland W17

44 Is there existing physical public access to features listed in question 43?

| | | | |
|---|---|---|---|
| c | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| c | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| c | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| c | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| c | a. yes (all or part of yea | b. no | c. not applicable |

; hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| b | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| c | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)** W8

(bold questions =field)

Wetland NSTG

Observers cg cmw

Field Date 9

**Wetland Structure and Landscape**

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

Off site Ag land

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| a | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| b | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

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

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c (UTF) |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | 2b | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

**22** How many wetland plant species are present (urban areas)?

| b | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| b | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| C | a. high | b. moderate | c. low |
|---|---|---|---|

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| C | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

harvested

How is the wetland connected to other wetlands?

| b | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

28 Estimate area of unvegetated, open water within the wetland.

| d | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

**Fisheries Habitat** Wetland W18

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

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

**Streams connected to the wetland** Isolated depressions in Ag field

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

s there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

aerial photo ponding appear

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| a | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| — | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent o the wetland? (list type and extent)

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

Wetland W18

44 Is there existing physical public access to features listed in question 43?

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

45 Is access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| C | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| B | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| B | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| a | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

57 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| C | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)** WH

(bold questions =field)

Wetland SO1

Observers

Field Date 9/27/97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1 a | | |
| 2. Agriculture | | | 2 c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | 4 b | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | 1 a | | |
| 2. Agriculture | | | 2 c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | |
| 5. Other | | | |

**17** What is the (entire) wetland acreage?

| b (1.2) | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| b | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|

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

| a basin | a. yes | b. no |
|---|---|---|

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | 2b (EFU) | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c (IL) |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| 1 Open water (OW >6.6ft) | | | | |
| 2 Emergent (EM) | 2 a | | | |
| 3 Scrub-shrub (SS) | | | | |
| 4 Forested (FO) | | | | |

**22** How many wetland plant species are present (urban areas)?

| c PHAR | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|

**23** What is the dominant wetland vegetation cover?

| c | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| c | a. high | b. moderate | c. low |
|---|---|---|---|

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| a | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|

**27** How is the wetland connected to other wetlands?

| 1a | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|

**28** Estimate area of unvegetated, open water within the wetland.

| ϕ | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|

Wetland W19

## Fisheries Habitat

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

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

**treams connected to the wetland**

30 What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| D | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

| | | | |
|---|---|---|---|
| C | a. >25% | b. bet. 10% & 25% | c. <10% |

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

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

| | | | |
|---|---|---|---|
| | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

## Wetland Hydrology

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

| | | | |
|---|---|---|---|
| b | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

s there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a on S end. | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| a | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| — | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| — b | a. yes | b. no |

## Public Access to Wetland Site

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| C | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

Salem water outlet

44 Is there existing physical public access to features listed in question 43? Wetland W19

| | | | |
|---|---|---|---|
| C | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

, access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| — C | a. yes (all or part of yea | b. no | c. not applicable |

's hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| — B | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| C | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

5. How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| b | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| c | a. > two | b. two | c. one |

Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)
(bold questions =field)

Wetland SD 2 W1
Observers CG CmW
Field Date 6/19/97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|
| (b) | | | |

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| b | | | |

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

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

connected to Salem Ditch but not in 100yr FP

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | 2b | | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| b | | | |

What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| b | | | |

How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c (ag) | | | |

For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c | | | |

How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| b | | | |

Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| (a) (b) (d) | | | | |

Check

Wetland (SD7 W20)

**Fisheries Habitat**

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

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

**treams connected to the wetland** NA

30 What is the physical character of the stream channel?

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

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

| | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |
|---|---|---|---|---|
| | | | | |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | a. yes | b. cannot be determine | c. no |
|---|---|---|---|
| | | | |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | a. 60% or more | b. bet. 20% & <60% | c. <20% |
|---|---|---|---|
| | | | |

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

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

**Wetland Hydrology**

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

| | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |
|---|---|---|---|
| b | | | |

s there evidence of flooding or ponding during a portion of the growing season?

| | a. yes (describe) | b. unable to determine or not applicable | c. no |
|---|---|---|---|
| a early growing season ponded | water evident | | |

— Check aerial

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |
|---|---|---|---|
| a | | | |

39 If the primary source of water is surface flow, is the inflow restricted?

| | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |
|---|---|---|---|
| NA | | | |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | a. yes | b. no |
|---|---|---|
| NA | | |

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | a. yes | b. yes, but only by permission | c. no, access not allow |
|---|---|---|---|
| C | | | |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |
|---|---|---|---|
| a | | | |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent o the wetland? (list type and extent)

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

Salem Ditch

Wetland (SD1) W20

44 Is there existing physical public access to features listed in question 43?

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| b | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| C | a. yes (all or part of yea | b. no | c. not applicable |

's hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| B | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| b (pond) | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| B | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

5 How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| C | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland SD3 W21
Observers CG CMW
Field Date 9/19/97

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

16 What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

17 What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|
| b | | | |

18 How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| a | | | |

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

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

20 What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | 2a | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | 1a | | | |
| Emergent (EM) | | | | 2d |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | | | |

22 How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| c | | | |

23 What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| b | | | |

24 How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

25 SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| | | | |

26 For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c | | | |

27 How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| a (Salem Ditch) | | | |

28 Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| B | | | | |

**Fisheries Habitat** Wetland W21

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

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

**treams connected to the wetland** Salem Water Ditch (but too far away)

What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| b | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| c | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| c | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

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

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| a piped from ditch | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| c | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| b | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

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

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

44 Is there existing physical public access to features listed in question 43? Wetland WZ4

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

s access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| a | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| B | a. yes (all or part of yea | b. no | c. not applicable |

's hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| B | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| B | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

| | | |
|---|---|---|
| B | a. yes | b. no |

54 If the site contains visual detractors, can they be easily removed?

| | | |
|---|---|---|
| — | a. yes | b. no |

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| a | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| b | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

**Stayton Area Oregon Freshwater Wetland Assessment Questions (4/96 edition)**
(bold questions =field)

Wetland SWT, NA
Observers
Field Date Jly St

**Wetland Structure and Landscape**

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

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | 2b | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | 4b | |
| 5. Other | | | |

**16** What is the dominant existing land use within 500 feet of the wetland on the downstream or down-slope edge of the wetland?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space Water Ditch | 1a | | |
| 2. Agriculture | | | 2c |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | 4a | | |
| 5. Other | | | |

cotton-wood farm

**17** What is the (entire) wetland acreage?

| | a. >5 acres | b. bet. 0.5 & 5 acres | c. < 0.5 acres |
|---|---|---|---|

**18** How is wetland connected to a stream, lake, or pond ? (see Figure, p. 35)

| | a. connected by surface water (culv., ditch, int./per. stream) | b. not connected to water body within 1 mile | c. not connected, no water bodies within 1 mile |
|---|---|---|---|
| b (?) | | | |

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

| | a. yes | b. no |
|---|---|---|
| b (?) | | |

**20** What is zoned percentage of land use within 500 feet of the wetland edge?

| | a. <20% | b. bet. 20% & 50% | c. >50% |
|---|---|---|---|
| 1. Open Space | | | |
| 2. Agriculture | | | |
| 3. Exclusive Forest Use | | | |
| 4. Developed uses | | | 4c |
| 5. Other | | | |

**Wetland Habitat**

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

| | a. bet. 70% & 100% | b. bet. 50% & <70% | c. bet. 20% & <50% | d. bet. 10% & <20% |
|---|---|---|---|---|
| Open water (OW >6.6ft) | | | | |
| Emergent (EM) | | 2b | → | |
| Scrub-shrub (SS) | | | | |
| Forested (FO) | | 4b | | |

**22** How many wetland plant species are present (urban areas)?

| | a. >5 | b. bet. 2 & 5 | c. 1 (monotypic) |
|---|---|---|---|
| b | | | |

**23** What is the dominant wetland vegetation cover?

| | a. woody (FO & SS) | b. emergent and ponding, or open water only (EM w/ water or OW) | c. emergent vegetation only or wet meadow (EM) |
|---|---|---|---|
| ? | | | |

**24** How interspersed are the Cowardin classes (and upland inclusions)? (see Figure p. 37)

| | a. high | b. moderate | c. low |
|---|---|---|---|
| c | | | |

**25** SKIP (for rural areas) what percentage of the wetland edge is bordered by upland wildlife habitat at least 150 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| | | | |

**26** For urban areas, what percentage of the wetland edge is bordered by a vegetative buffer at least 25 feet wide?

| | a. >40% | b. bet. 10% & 40% | c. <10% |
|---|---|---|---|
| c | | | |

**27** How is the wetland connected to other wetlands?

| | a. connected within 3 miles by surface water | b. not connected; wetlands present within 3 miles | c. not connected, no other wetlands within 3 miles |
|---|---|---|---|
| a | | | |

**28** Estimate area of unvegetated, open water within the wetland.

| | a. >3 acres | b. >1 to 3 acres | c. bet. 0.5 & 1 acre | d. <0.5 acre |
|---|---|---|---|---|
| d | | | | |

Wetland W15

**Fisheries Habitat**

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

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

**treams connected to the wetland**

What is the physical character of the stream channel?

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

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

| | | | | |
|---|---|---|---|---|
| b | a. >75% | b. bet. 50% & 75% | c. bet. 25% & <50% | d. <25% |

32 What percentage of the stream contains instream structures such as large woody debris, floating/submerged vegetation, large rocks or boulders?

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

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

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

| | | | |
|---|---|---|---|
| — | a. yes | b. cannot be determine | c. no |

34 What percentage of the shoreline is shaded at the water's edge by forested or scrub-shrub vegetation?

| | | | |
|---|---|---|---|
| — | a. 60% or more | b. bet. 20% & <60% | c. <20% |

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

| | | | |
|---|---|---|---|
| — | a. >25% | b. bet. 10% & 25% | c. <10% |

**Wetland Hydrology**

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

| | | | |
|---|---|---|---|
| b ↓ stormwater ? | a. surface flow, including streams and ditches | b. precipitation or sheet flow | c. groundwater, including springs or seeps |

s there evidence of flooding or ponding during a portion of the growing season?

| | | | |
|---|---|---|---|
| a | a. yes (describe) | b. unable to determine or not applicable | c. no |

38 Is the water flow out of the wetland restricted (beaver dam, concrete structure, undersized culvert)?

| | | | |
|---|---|---|---|
| a beaver dam | a. yes, restricted or no outlet | b. minor restrictions slow down the water | c. no, outlet has unrestricted flow |

39 If the primary source of water is surface flow, is the inflow restricted?

| | | | |
|---|---|---|---|
| a | a. not restricted or if blocked, can be removed | b. permanent blockage exists, but may be breached (create new flow channel) | c. flow is restricted and cannot be restored |

40 Has the stream flow or stream bank been modified by human activities (dams, levees, channelization, confinement of stream in a pipe) < 1 mile above the wetland?

| | | |
|---|---|---|
| ? | a. yes | b. no |

**Public Access to Wetland Site**

41 Is the wetland open to the public for direct access or observation?

| | | | |
|---|---|---|---|
| c | a. yes | b. yes, but only by permission | c. no, access not allow |

42 Are there visible hazards to the public at the wetland site? (busy road with no buffer or sidewalk, steep embankment, contaminated water)

| | | | |
|---|---|---|---|
| a | a. no | b. one or two visible safety hazards exist (describe) | c. more than two visible safety hazards exist (describe) |

43 Are other natural landscape features (stream, lake, pond, forest, agricultural land) contiguous or adjacent to the wetland? (list type and extent)

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

Salem Ditch

44 Is there existing physical public access to features listed in question 43? Wetland W15

| | | | |
|---|---|---|---|
| b | a. public access to other habitats exists or can be created easily | b. public access doesn't exist and can't be created easily, but observation of other features can be made from the site | c. public access doesn't exist, can't be crated easily, and observation of other features can't be made from the site |

access to a viewing spot or wetland edge available for individuals with limited mobility? (does not have to meet ADA)

| | | | |
|---|---|---|---|
| a | a. yes | b. no | (list physical barriers) |

46 Is there a public access point within 250 feet of the wetland's edge? (parking lots, transit stops, bike lanes, trails, water courses; maintained means designated car or transit area; unmaintained means road pull-off, etc. - describe)

| | | | |
|---|---|---|---|
| C | a. yes, maintained access point exists | b. yes, unmaintained access point exists | c. no access point exists, or the access point is hazardous |

**Recreation**

47 Is the wetland accessible by boat?

| | | | |
|---|---|---|---|
| C | a. boat launching areas or access points exist on site or within 1/2 mile on a connected lake, river, bay or other body of water | b. potential to develop launching areas or access points exists, or are >1/2 mile but <1 mile from wetland | c. no boat launching areas exist within 1 mile of the wetland, and potential to develop launching areas or access points is limited. |

48 Are there trails, viewing areas or other structures that guide user movement to particular areas in or around the wetland?

| | | | |
|---|---|---|---|
| C | a. yes, developed or maintained trails or viewing areas exist | b. yes, undeveloped trails or viewing areas exist that do not disrupt wildlife or plant habitat | c. no trails or viewing areas exist, or those that do disrupt wildlife or plant habitat. |

49 Is fishing allowed at the wetland or adjacent water body? (answer "c" if 18="b or c", unless 21=OW>10%)

| | | | |
|---|---|---|---|
| C | a. yes (all or part of yea | b. no | c. not applicable |

s hunting allowed at the wetland? (If wetland is within city limits, answer is no)

| | | |
|---|---|---|
| b | a. yes (all or part of yea | b. no |

**Aesthetics**

51 SKIP (for rural areas) what is the extent of visual contrast with the surrounding landscape? (see Figure p. 45)

| | | | |
|---|---|---|---|
| | a. significant contrast | b. limited contrast | c. little or no contrast |

52 For urban areas, what is the visual character of the surrounding area? (see Figure p. 46)

| | | | |
|---|---|---|---|
| b | a. open space or naturally landscaped | b. landscaped or manipulated by people | c. developed with no landscaping |

53 Are there visual detractors at the site (abandoned cars, litter, shopping carts, etc.) that distract the viewer from the wetland?

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

54 If the site contains visual detractors, can they be easily removed?

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

**Locate the primary viewing area(s) for the following 4 questions (and mark on map)**

55 What odors are present at the primary viewing location(s)?

| | | | |
|---|---|---|---|
| b | a. natural, pleasant odors only | b. unpleasant odors (auto exhaust, sewage) present at certain times | c. unpleasant odors are distinct and continuously present |

56 What noises are audible at the primary viewing location(s)?

| | | | | |
|---|---|---|---|---|
| C | a. bird and wildlife noises and other naturally occurring sounds | b. some traffic and other similar background sounds are audible in addition to naturally occurring sounds | c. continuous traffic or other intrusive noise is audible in addition to naturally occurring sounds | d. continuous traffic or other intrusive noise is audible, but no naturally occurring audible sounds are |

5[illegible] How much of the wetland is visible from the viewing area(s)? Describe the view.

| | | | |
|---|---|---|---|
| a | a. >50% | b. bet. 25% & 50% | c. <25% |

58 How many Cowardin classes are visible from the primary viewing area(s)? (question 21)

| | | | |
|---|---|---|---|
| b | a. > two | b. two | c. one |

# APPENDIX 7

## RIPARIAN SUMMARY SHEETS

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RMC-1, Upper Mill Creek **Field Date:** 7/29/97
**Location:** Mill Creek between State Highway 22 and just west of Oakmont Road

**General Description:** RMC-1 is the upper reach of Mill Creek. The wetland riparian corridor with trees is ~35' wide. Stream banks are vertical mud banks about 10' deep; no adjacent hillslopes. Most likely ditched historically for agricultural purposes. Stream had low flow in July and was approximately 6" deep; water was clear and visible to mud bottom. Stream is >75% shaded east of 1st Avenue and approximately 25% shaded west of 1st Avenue. Canopy is dominated by Pacific ninebark, willow and Oregon ash. Flood debris was caught in vegetation 7' above the stream. Mill creek is considered a headwater stream by ODFW and provides important food and water resources for downstream fish.

**Stream** is perennial. **Corridor width with trees:** approximately 35 feet wide.
**Channel:** U-shaped, 25' wide; <5% large woody debris; 55% avg. canopy cover
**Floodplain:** in the 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Agriculture

**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | * *Physocarpus capitatus* | **Phalaris arundinacea* |
| *Alnus rubra* | * *Salix piperi* | *Stachys cooleyae* |
| | *Salix sitchensis* | |
| | *Spiraea douglasii* | |
| | *Corylus cornuta* | |

**Riparian Functions:**

**Water Quality:** High; trees dominate vegetation on banks; broad flat floodplain
**Flood Management:** Medium; woody vegetation is present but not dominant in FP
**Thermal Regulation:** Medium; water approximately 50% shaded
**Wildlife Habitat:** Medium; limited vegetation diversity; agricultural disturbances

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RMC-2, Middle Mill Creek **Field Date:** 7/29/97
**Location:** Mill Creek between RMC-1 (west of Oakmont Rd.) and the Golf Course

**General Description:** This reach of Mill Creek (RMC-2) is ~15' wide and well-shaded with diverse riparian canopy. The u-shaped stream has rock to cobble substrate. The riparian corridor is broad to the northeast grading into a Douglas fir/big leaf maple upland forest. Large woody debris is common. Reed canarygrass dominates the understory. Flood debris is 4-6' high in trees along stream. Mill Creek is considered a headwater stream by ODFW and provides important food and water resources for downstream fish.

**Stream** is perennial
**Corridor width with trees:** >400' to the NE and limited on the SW side of the stream
**Channel:** U-shaped, 25' wide; large woody debris common; 95% canopy cover
**Floodplain:** in the 100 year floodplain
**Degree of development/disturbance:** <25% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Natural

**Riparian Vegetation (*=major dominant):**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | **Spiraea douglasii* | **Ranunculus repens* |
| *Alnus rubra* | **Salix piperi* | **Phalaris arundinacea* |
| *Salix sp.* | *Cornus stolonifera* | **Carex obnupta* |
| | *Lonicera involucrata* | *Myosotis laxa* |
| | *Rosa sp.* | *Ranunculus sp.* |
| | *Rhamnus purshiana* | *Eleocharis sp.* |
| | *Acer circinatum* | |

**Riparian Functions:**

**Water Quality:** High; trees dominate vegetation on banks; broad forested floodplain
**Flood Management:** Medium; woody vegetation is dominant but reduced due to channelization
**Thermal Regulation:** High; water approximately 95% shaded
**Wildlife Habitat:** High; vegetation diversity; limited disturbances

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RMC-3, Lower Mill Creek **Field Date:** 7/30/97
**Location:** Golf Course

**General Description:** This reach of Mill Creek, RMC-3, has been channelized through the golf course. The understory has been mowed, often to the top of bank, and tree cover is limited. Mill creek is considered a headwater stream by ODFW and provides important food and water resources for downstream fish.

**Stream** is perennial. **Corridor width with trees:** approximately 30 feet wide.
**Channel:** U-shaped, 25' wide; <5% large woody debris; <25% canopy cover
**Floodplain:** in the 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Golf Course
**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Fraxinus latifolia* | * *Physocarpus capitatus* | **Phalaris arundinacea* |
| *Alnus rubra* | * *Salix piperi* | *Stachys cooleyae* |
| | *Salix sitchensis* | |
| | *Spiraea douglasii* | |
| | *Corylus cornuta* | |

**Riparian Functions:**

**Water Quality:** Medium; Limited tree cover in floodplain
**Flood Management:** Medium; Limited tree cover in floodplain
**Thermal Regulation:** Medium; water <25% shaded
**Wildlife Habitat:** Low; limited vegetation diversity and cover; golf course disturbances

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RSD-1, Salem Water Ditch **Field Date:** 11/5/97
**Location:** Pioneer Park (West End of Wilderness Park west to 4th Avenue)

**General Description:**
The Salem Water Ditch was constructed in the 1850's to supply water to mills in Salem. It diverts water from the North Santiam River and forms the western boundary of the Stayton UGB. This reach of the Salem Water Ditch is connected to Wilderness Park (NS2) and the North Santiam River. It supports a well developed riparian community. The canopy is dominated by big leaf maple, red alder and Douglas fir and shades the stream (95%). Dominant understory species incude red elderberry, snowberry, Himalayan blackberry and sword fern. The channel is approximately 25 feet wide and 3-5 feet deep with a rocky substrate. The riparian corridor is typically flat and more than 75 feet wide and is adjacent to Pioneer Park which is located to the north. The Park has numerous large Douglas fir trees with a mowed lawn understory. A soft path recreational trail is located on the north side of the stream; it also connects to numerous trails in Wilderness Park.
The Salem Water Ditch provides anadromous fish habitat.

**Stream** is perennial **Corridor width with trees:** >75 feet
**Channel:** U-shaped, 25' wide; <5% large woody debris; 95% canopy cover
**Floodplain:** east end in the 100 year floodplain
**Degree of development/disturbance:** <25% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Natural

**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Acer macrophyllum* | **Rubus discolor* | *Carex obnupta* |
| **Alnus rubra* | **Sambucus racemosa* | *Dactylis glomerata* |
| *Fraxinus latifolia* | **Symphoricarpos albus* | *Montia sibirica* |
| **Pseudotsuga menziesii* (3'dbh) | *Berberis aquifolium* | *Osmorhiza chilensis* |
| | *Corylus cornuta* | *Phalaris arundinacea* |
| | *Holodiscus discolor* | **Polystichum munitum* |
| | *Oemleria cerasiformis* | *Solanum dulcamara* |
| | *Philadelphus lewisii* | *Vancouveria hexandra* |
| | *Rosa* species | |

**Riparian Functions:**

**Water Quality:** High; trees dominate vegetation on banks; average slopes <10%
**Flood Management:** Medium; woody vegetation is dominant but reduced due to channelization; most of corridor is not in the FP
**Thermal Regulation:** High; water approximately 95% shaded
**Wildlife Habitat:** High; vegetation diversity; adjacent to a large wetland complex; limited disturbances

## RIPARIAN SUMMARY SHEET

**SITE:** RSD-2, Salem Water Ditch **Field Date:** 11/5/97
**Location:** Between 1st and 4th Avenue

**General Description:**
RSD-2 is the most urban reach of the Salem Water Ditch. Canopy vegetation is generally lacking and the channel is more often shaded by buildings that are located adjacent to the top of bank. Vegetation is often mowed and disturbed. Channel is concrete-lined. Impervious surfaces dominate the riparian corridor. The Salem Water Ditch provides anadromous fish habitat.

**Stream** is perennial. **Corridor width with trees:** limited
**Channel:** U-shaped, 25' wide; <5% large woody debris; limited canopy cover
**Floodplain:** not in 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** >25%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Developed

**Riparian Vegetation:** Disturbed / Urban

**Riparian Functions:**

**Water Quality:** Low; Limited tree cover; high % impervious surfaces
**Flood Management:** Low; Not in floodplain
**Thermal Regulation:** Low; water <25% shaded
**Wildlife Habitat:** Low; limited vegetation diversity; urban disturbances

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RSD-3, Salem Water Ditch **Field Date:** 11/5/97
**Location:** Between 1st Avenue and Wilco Road

**General Description:**
The Salem Water Ditch was constructed in the 1850's to supply water to mills in Salem. It diverts water from the North Santiam River and forms the western boundary of the Stayton UGB. The width of the channel in this reach is approximately 30 feet; water depth generally is less than 3 feet. The riparian corridor is forested with a narrow band of trees and is approximately 60 feet wide. Vegetation is dominated by big leaf maple, red alder and Douglas fir; Oregon white oak and cherry are also present. The understory includes Himalayan blackberry, snowberry, Oregon grape, English ivy, sword fern, soft rush, reed canarygrass and other grasses. Where grasses are present, they are often mowed. The riparian area includes the community park and developed land. The Salem Water Ditch provides anadromous fish habitat.

**Stream** is perennial **Corridor width with trees:** 60 feet
**Channel:** U-shaped, 30' wide; <5% large woody debris; >75% canopy cover
**Floodplain:** not in 100 year floodplain
**Degree of development/disturbance:** <25% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Developed

**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Acer macrophyllum* | **Rubus discolor* | **Polystichum munitum* |
| **Alnus rubra* | **Symphoricarpos albus* | *Phalaris arundinacea* |
| **Pseudotsuga menziesii* | *Berberis species* | *Juncus effusus* |
| *Prunus* species | | *Hedera helix* |
| *Quercus garryana* | | lawn |

**Riparian Functions:**

**Water Quality:** High; trees dominate vegetation on banks; average slopes <10%
**Flood Management:** Low; not in the FP
**Thermal Regulation:** High; water approximately 75% shaded
**Wildlife Habitat:** High; vegetation diversity
**Fish Habitat:** High; supports downstream anadromous fish

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RSD-4 Salem Water Ditch **Field Date:** 11/5/97
**Location:** between Wilco Road and the NW corner of the UGB

**General Description:**
RSD-4 is the most downstream reach of the Salem Water Ditch in the Stayton UGB. The width of the channel is typically 30 feet; water depth generally is less than 3 feet. Trees are scattered and limited to a narrow band where present. The Salem Water Ditch provides anadromous fish habitat.

**Stream** is perennial. **Corridor Width** > 75 feet wide.
**Channel:** U-shaped; <5% large woody debris; <25% canopy cover
**Floodplain:** not in the 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Agriculture

**Riparian Vegetation:**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | *Rubus discolor* | grass |
| | | ag field |
| | | *Juncus effusus* |
| | | *Phalaris arundinacea* |

**Riparian Functions:**

**Water Quality:** Medium; Limited tree cover
**Flood Management:** Low; Not in floodplain
**Thermal Regulation:** Low; water <25% shaded
**Wildlife Habitat:** Low; limited vegetation diversity; urban disturbances

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RST-1, Stayton Water Ditch **Field Date:** 11/5/97
**Location:** between Wilderness Park and King Avenue

**General Description:** Stayton Water Ditch is a perennial stream that was constructed in 1866. It diverts water from the North Santiam River and is used for irrigation. The width of the ditch is approximately 30 feet; water depth is typically less than 3 feet. Channel banks are almost vertical with a drop of 5-10 feet. The riparian corridor with trees is approximately 50-60 feet wide. Two bridges cross the channel (Holly Ave., Norblad Lane). Utility pipes also cross the channel (east of Holly Ave.). Numerous residences with backyards adjacent to the stream have removed riparian vegetation for lawns. Riparian vegetation is dominated by red alder and Douglas fir; it provides shade of the stream and a limited wildlife corridor for canopy species. On the bank of the ditch at the Paris Woolen Mills site (Florence Ave.) there is a wetland fringe that is approximately 15 feet wide between the building and parking area and the water line. Vegetation in this area is dominated by willow, slough sedge and reed canarygrass. This portion of the ditch is mapped in wetland unit W12. The Stayton Water Ditch provides anadromous fish habitat.

**Stream** is perennial **Corridor width with trees:** 50 - 60 feet
**Channel:** U-shaped, 30' wide; <5% large woody debris; >75% canopy cover
**Floodplain:** not in 100 year floodplain
**Degree of development/disturbance:** <25% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Developed

**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | *Symphoricarpos albus* | *Carex obnupta* |
| **Pseudotsuga menziesii* | *Salix* species | *Juncus effusus* |
| *Acer macrophyllum* | *Rubus discolor* | *Phalaris arundinacea* |
| *Pinus ponderosa* | | |
| *Populus trichocarpa* | | |
| *Thuja plicata* | | |

**Riparian Functions:**
**Water Quality:** High; trees dominate vegetation on banks; average slopes <10%
**Flood Management:** Medium; forested and portion in FP
**Thermal Regulation:** High; water approximately 75% shaded
**Wildlife Habitat:** High; vegetation diversity

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RST-2, Stayton Water Ditch **Field Date:** 11/5/97
**Location:** between King Avenue and the West end of the UGB

**General Description:** Stayton Water Ditch is a perennial stream that was constructed in 1866. It diverts water from the North Santiam River and is used for irrigation. The width of the ditch is approximately 30 feet; water depth is typically less than 3 feet. Channel banks are almost vertical with a drop of 5-10 feet. This reach has limited canopy cover. Vegetation is dominated by grasses. The Stayton Water Ditch provides anadromous fish habitat.

**Stream** is perennial **Corridor width with trees:** limited
**Channel:** U-shaped, 30' wide; <5% large woody debris; <25% canopy cover
**Floodplain:** not in 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Agriculture

**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | *Symphoricarpos albus* | *Carex obnupta* |
| **Pseudotsuga menziesii* | *Salix* species | *Juncus effusus* |
| *Acer macrophyllum* | *Rubus discolor* | *Phalaris arundinacea* |
| *Pinus ponderosa* | | |
| *Populus trichocarpa* | | |
| *Thuja plicata* | | |

**Riparian Functions:**
**Water Quality:** High; trees dominate vegetation on banks; average slopes <10%
**Flood Management:** Medium; forested and portion in FP
**Thermal Regulation:** High; water approximately 75% shaded
**Wildlife Habitat:** High; vegetation diversity
**Fish Habitat:** High; supports downstream anadromous fish

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RST-3, Stayton Water Ditch Slough **Field Date:** 11/5/97
**Location:** a channel off of Stayton Ditch in the vicinity of Norblad Lane

**General Description:** RST-3 is a branch of the Stayton Water Ditch and is also a perennial stream. The width of the slough channel is approximately 30 feet; channel banks appear natural. The treed riparian corridor is approximately 150-300 feet wide. Agricultural fields are dominant to the north and open space is dominant to the south. Riparian vegetation is dominated by red alder and big leaf maple; it provides shade of the slough and a broad wildlife corridor. The Slough provides anadromous fish habitat.

**Stream** is perennial **Corridor width with trees:** 150 feet
**Channel:** Natural, 30' wide; <10% large woody debris; >90% canopy cover
**Floodplain:** in 100 year floodplain
**Degree of development/disturbance:** <25% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** <10% **Dominant Surrounding Land Use:** Natural

**Riparian Vegetation:** (*=dominant)

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| **Alnus rubra* | **Physocarpus capitatus* | *Carex obnupta* |
| **Acer macrophyllum* | *Symphoricarpos albus* | *Equisetum hyemale* |
| | *Rhamnus purshiana* | *Hedera helix* |
| | *Rubus discolor* | grass |

**Riparian Functions:**
**Water Quality:** High; trees dominate vegetation on banks; average slopes <10%
**Flood Management:** High; forested and in FP
**Thermal Regulation:** High; water approximately 90% shaded
**Wildlife Habitat:** High; vegetation diversity, perennial water, multi-layered

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RST-4, Over-flow Channel (off Slough) **Field Date:** 11/5/97
**Location:** between Norblad Lane Slough and North Santiam River

**General Description:** The over-flow channel is a ditch located between the slough and the North Santiam River. It is culverted on the south end beneath a farm access road. Vegetation is limited to weedy grasses and Himalayan blackberry.

**Stream** may be seasonal (?). **Corridor Width** 15 to 20 feet wide
**Channel:** U-shaped; no large woody debris; no canopy cover
**Floodplain:** in the 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** <10%
**Average slope in riparian corridor:** 10% **Dominant Surrounding Land Use:** Agriculture

**Riparian Vegetation:**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | *Rubus discolor* | grass |
| | | *Phalaris arundinacea* |

**Riparian Functions:**

**Water Quality:** Medium; flat floodplain with herbaceous cover
**Flood Management:** Medium; herbaceous vegetation in FP
**Thermal Regulation:** Low; water <25% shaded
**Wildlife Habitat:** Low; limited vegetation diversity

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** RST-5, Power Canal (off shoot of Stayton Ditch) **Field Date:** 11/5/97
**Location:** south of the intersection of 4th Avenue / Water Street

**General Description:** The power canal is a small u-shaped channel connected to the Stayton Ditch and used for power generation. The channel is approximately 20 to 30 feet wide and most of it has concrete walls. There is limited riparian cover. Vegetation on the banks is weedy with grasses, forbs and Himalayan blackberry. The channel is screened to prevent fish access.

**Stream** is perennial and artificial. **Corridor Width** 20 to 30 feet wide
**Channel:** U-shaped; no large woody debris; limited canopy cover
**Floodplain:** in the 100 year floodplain
**Degree of development/disturbance:** >75% **Impervious surfaces:** >25%
**Average slope in riparian corridor:** 10%-20% **Dominant Surrounding Land Use:** Developed

**Riparian Vegetation:**

| **Trees** | **Shrubs** | **Herbs/Emergents** |
|---|---|---|
| | *Rubus discolor* | *Juncus effusus* |
| | | grass |
| | | forb |

**Riparian Functions:**

**Water Quality:** Low; Limited tree cover; high impervious surfaces
**Flood Management:** Low; Controlled for power
**Thermal Regulation:** Low; water <25% shaded
**Wildlife Habitat:** Low; limited vegetation diversity; urban disturbances

**CITY OF STAYTON RIPARIAN CORRIDOR INVENTORY**
**RIPARIAN SUMMARY SHEET**

**SITE:** NSR, North Santiam River **Field Date:** 11/5/97
**Location:** South end of UGB

**General Description:**
The North Santiam River is a significant natural resource in the Stayton UGB. Four wetland units have been evaluated in the river floodplain (NS1, NS2, NS3, NS4) and detailed information can be found on their respective summary sheets in the LWI. All of these wetlands contain wetland forests or wetland/upland forest mosaics. These broad forested areas provide high water quality, flood management, thermal regulation and wildlife habitat functions. The River also provides important anadromous fish and sensitive species habitat; the Oregon chub, a federally listed endangered species is found on Gehren Island.

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# Riparian Inventory

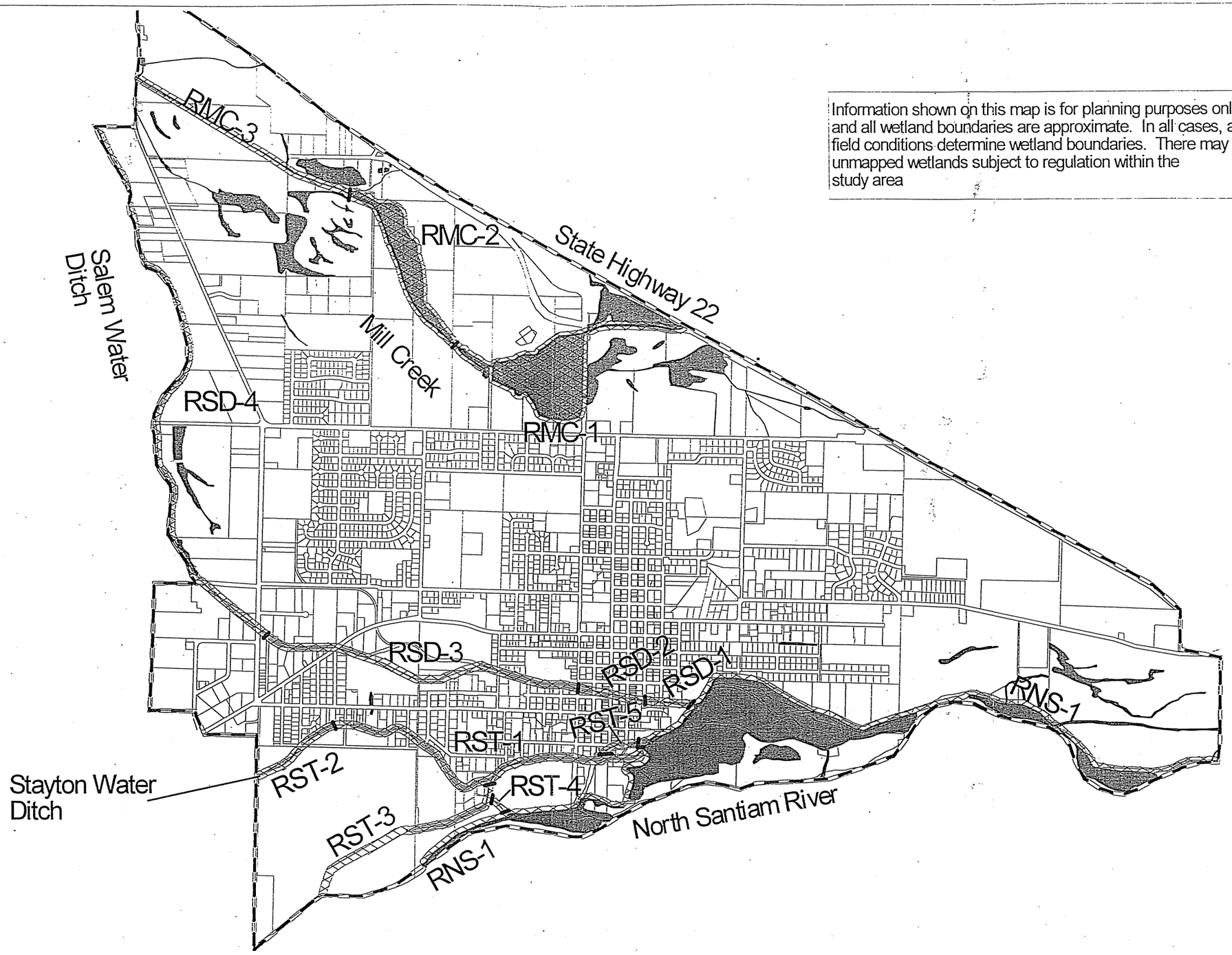
# APPENDIX 8

# LWI Maps

# APPENDIX 9

# RIPARIAN CORRIDOR MAP

Information shown on this map is for planning purposes only and all wetland boundaries are approximate. In all cases, actual field conditions determine wetland boundaries. There may be unmapped wetlands subject to regulation within the study area



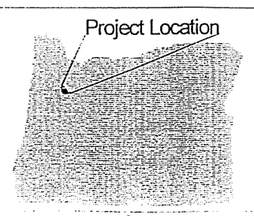

Riparian Corridor
Wetlands
Intermittent Streams RMC-1
Perennial Streams
Taxlots
Study Area Boundary
Riparian Reach Seperator

Riparian Corridor Label

1000 0 1000 2000 Feet

N W E S

Taxlot map source: Marion/Salem Central Computer Facility (Data Center) 5/20/97
Map Projection State Plane, Zone 5076
Map units international feet, datum HPGN 83/91




Fishman Environmental Services
*Consultants in ecology and natural resource management*
434 NW Sixth Avenue, Suite 304
Portland, OR 97209
(503)224-0333

# City of Stayton Riparian Corridor Inventory

Files for Stayton LWI Project

| Feature | Filename |
|---|---|
| Wetland Labels | g:\97047\digital\Allabels.shp |
| Sample Plots | g:\97047\digital\ plots.shp |
| Observation Points | g:\97047\digital\views.shp |
| Streams | g:\97047\digital\sty_strm.shp |
| Wetlands | g:\97047\digital\stay_wet.shp |
| Delineation_mitigation | g:\97047\digital\mitshps.shp |
| Taxlots | g:\97047\digital\stayton.shp |
| Study Area | g:\97047\digital\stdy_lin.shp |
| Riparian Area | g:\97047\digital\buf_ply2.shp |

These are the files for the Stayton LWI GIS project. These files area archived on a floppy disk in Peter's office floppy file unit. The two foot pixel digital orthophotos used for this project are also found in the g:\97047\digital*.tif directory as tif files. The CD with these images will be given to the city of Stayton for their use.

The GIS data are in State Plane Zone in International feet
Zone 5076
Datum HPGN 83/91
GRS 1980