APPROVED WETLANDS INVENTIONY Oregon Division of State Lands Meets Local wetlands Inventorystandards Date 9/99 Approved by I. Mortan

Oregon City Local Wetland Inventory and Riparian Assessment

Prepared for

The City of Oregon City

Prepared by



Shapiro and Associates, Inc.

June 24, 1999

Oregon City Local Wetland Inventory and Riparian Assessment

Prepared for

The City of Oregon City 320 Warner Milne Road Oregon City, Oregon 97045

Prepared by

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June 24, 1999

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Attachment

Wetland and Riparian Inventory Section Maps



APPROVED WETLANDS INVENTORY Oregon Division of State Lands *****・ L业王 standards Approved by J. morlan Date 9/11 Mee'ts__ MA 213 4 100 NER-1 NEL-1 NE6 Newell Cree 213 НАΥ 101 8 g Hit NER NEL NE8A NE8 NE8C \triangleleft (NE8D M2 z A. NEBE G

.



CITY OF OREGON CITY LOCAL WETLAND INVENTORY



WETLAND INFORMATION IS SUBJECT TO CHANGE

This map is for planning purposes only. Mapped wetland and riparian boundaries were not flagged or surveyed (unless noted as a delineation study). Boundaries for on-site verified wetlands are accurate to within 25'. There may be exceptions or unmapped wetlands subject to regulation. In all cases, actual field conditions determine wetland boundaries. If site alteration work is proposed, you are advised to contact the Oregon Division of State Lands or the U.S. Army Corps of Engineers with regulatory questions. This study was funded by an Oregon Department of Land Conservation and Development periodic review planning

City of Oregon City

320 Warner Milne Road Oregon City, Oregon 97045

SHAPIRO

Creek flows in a deep canyon. Three smaller drainage basins without USGS mapped streams form the headwaters of Livesay Creek. Minor intermittent, unnamed tributaries of Abernethy Creek also run in canyons south of the creek on the eastern edge of the UGB at the northern end of the Country Village development area.

Newell Creek is a major tributary on the southern side of Abernethy Creek. Most of Newell Creek flows in a deep canyon. The UGB includes only the upper parts of the Newell Creek basin and smaller drainage areas of intermittent tributaries that flow into it. Only about 0.1 mile of Newell Creek is actually mapped by the USGS within the study area, northwest of the intersection of Highway 213 and Beavercreek Road. That part of the stream is mapped as perennial.

The Newell Creek headwaters are above the mapped part of the stream, at the ponds of the John Innskeep Environmental Learning Center. These ponds currently receive most of their water from the heating and cooling system of a nearby public school. The water is periodically flushed from the system and drains into the ponds. Natural springs also contribute to the water flow. After leaving the ponds, water from Newell Creek flows in a gentle gradient through a series of channels and culverts, eventually daylighting in the northwestern corner of the intersection of Highway 213 and South Beavercreek Road. It plunges down a concrete flume for approximately 50 feet, then cascades down a steep decline of boulders and plunge pools to the edge of the study area.

Beaver Creek has four tributaries that drain the southern portion of the inventory area, including Caufield Creek, Mud Creek, and a small tributary known locally as Little Beaver Creek. **Caufield Creek** is the farthest upstream, and drains the southeastern end of the inventory area. At the time of the inventory, properties in the upper Caufield Creek basin, in the vicinity of Glen Oak Road, were undergoing residential development, and much of the eastern end of the stream was in culverts. The creek channel south of Glen Oak Road has been excavated, and part of it apparently has been realigned as road-side drainage ditches. These ditches collect runoff and groundwater that make up the initial flow for Caufield Creek, which is mapped by the USGS as a perennial stream.

An earthen dam south of Highway 213 has created a pond of approximately 2 acres on Caufield Creek. The northern side of the pond is a moderately steep canyon wall, while the eastern side is adjacent to fill for Highway 213. The southern side has more moderate topography, with low-density residential development. Upon exiting the pond, Caufield Creek flows through a shrub and forested wetland and riparian area to the southern edge of the inventory area.

Mud Creek is the next tributary downstream (west) of Caufield Creek. Mud Creek is the longest tributary of Beaver Creek and starts as an intermittent drainage east of the intersection of Linn Avenue and Pease Road. The USGS mapped Mud Creek as an intermittent stream within the inventory area. Most of Mud Creek flows in a modified channel or long culverts and is ponded in small ponds in a city park near the center of the drainage and a small pond at the southern edge of the UGB.

West of Mud Creek is a small, unnamed, intermittent tributary in the area of the intersection of McCord and Leland Roads. The USGS does not map the stream within the study area.

OREGON CITY LOCAL WETLANDS INVENTORY - Stream Summary Sheet -

Date(s) of Field Verification: 7/16/98

Mapping Code: NE-7

Investigator(s): JG/PO

Size (acres): 1.3

Location

Legal: T3S R 2E S4

Other: NW of intersection of Hwy. 213 and Beavercreek Rd.

Basin: Newell Creek

Comments:

This stream is in a very steep, narrow canyon oriented generally north-south. Water flows into the wetland through a culvert in the northwestern corner of the intersection of Highway 213 and South Beavercreek Road. The water exits the culvert and flows down a concrete chute for an estimated 40 to 50 feet before entering a streambed that is composed predominantly of large boulders. The flow in this stream appears to be perennial, based on the quantity of water observed during the inventory field work. However, a major source of water for the stream is the Inskeep Environmental Learning Center wetland system, which receives much of its water intermittently from a pumping system. The stream contains a large quantity of woody debris, and is well shaded by the trees in the canyon. The steepness of the canyon and the rocky nature of the substrate prohibit the growth of emergent wetland vegetation at the water's edge.

Project Number:7971165Project Name:City of Oregon CityRiparian Code:NEL-1

Riparian Width Determination

Date: 7/16/98 Investigators: JG/PO

Dominant tree species: Acer macrophyllum

Potential tree height (PTH)/Width of Riparian Area: 90/90

(Width measured horizontally from edge of water resource)

PTH determined by: \blacksquare On-site vegetation \square Reference site Code:

Comments:

Typical Cross Section:



Project Number	: 7971165			
Project Name:	City of Oregor	n Citv		
Riparian Code:	NEL-1			
Riparian Chara	cterization Form	n		Part 1
General Inform	ation			
Date: 7/16	5/98			
On-site 🖌 Office	•		Reach Length: 1,600	
Investigators: JG/P	20		Hydrologic Basin: Newell Creek	
Water Resourc	e Information	·		
Water Resource:	Stream/River 🖌	Width:	8	
	Lake/Pond	Width:	0	
	Wetland	Width:	0	
LWI Wetland Code	: NE-7			
Water present year	-round: Yes			•
Are salmonids pres	ent in the adjacent w	ater res	ource: Yes	
Is the water resour	ce listed for tempera	ture on D	DEQ's 303(d) list: No	
Within FEMA-mapp	ped 100-year floodpla	ain: No		
Mapped soil series	: 8B, 92F			
Adjacent Land Us	es?			
Agriculture	Residential 🖌	Un		
Commercial	Roads 🗸	For	estry	
Woody Vegetatio	on		Herbaceous Vegetation	
Acer macrophyllum			Polystichum munitum	
Thuja plicata			Hydrophyllum tenuipes	
Alnus rubra			Urtica dioica	
Acer circinatum			Geranium robertianum	
Oemleria cerasiforn	nis		Claytonia sibirica	
Rubus ursinus				
llex aquifolium	-1-			
Vaccinium occident	ale			
-				

Project Number:	7971165			
Project Name:	: City of Oregon City			
Riparian Code:	NEL-1			
Riparian Charac	terization Form Part 2			
Average slope in th	e riparian area: (Question 1)			
□ <10:1 (10%)	☐ Between 10:1 (10%) and 5:1 (20%)			
Extent of imperviou	s surface within the riparian area: (Question 4) 0% to 25% \Box >25%			
The reach is cons	stricted by man-made features.			
The orientation a	llows for shading of the water resource at midday in summer.			
Dominant vegetatio	n layer within the riparian area:			
Woody vegetati	on Herbaceous vegetation Dare ground			
Woody vegetation hangs over the edge of the water.				
🖌 Large woody deb	oris in riparian area.			
Percent of water res ✓ >40% □ 10	source bordered by vegetated riparian area at least 30 feet wide: 0% to 40% \Box <10%			
Degree of developm	nent or human cause disturbance:			

✓ <25% □ 25% to 75% □ >75%

Project Number:	7971165
Project Name:	City of Oregon City
Riparian Code:	NEL-1

Riparian Function Assessment Answer Sheet

Water Quality

Question 1:	1
Question 2:	3
Question 3:	3
Question 4:	3
Question 5:	2
Total Points:	12

Function:			
ł			

Flood Management

Question 6:	3
Question 7:	3
Question 8:	3
Total Points:	9

Thermal Regulation

Question 9:	3
Question 10:	3
Question 11:	2
Total Points:	8

Wildlife Habitat

Question 12:	3
Question 13:	3
Question 14:	2
Question 15:	3
Question 16:	3
Question 17:	3
Question 18:	1
Question 19:	3
Total Points:	21

Function:

- Medium
- Low

Function:

Y	riign
\square	Medium
	Low

Fu	inction:
\checkmark	High
	Medium
	Low

Shapiro and Associates, Inc., 1650 N.W. Naito Parkway, Suite 302, Portland, Oregon 97209

Project Number:7971165Project Name:City of Oregon CityRiparian Code:NER-1

Riparian Width Determination

Date: 7/16/98 Investigators: JG/PO

Dominant tree species: Acer macrophyllum

Potential tree height (PTH)/Width of Riparian Area: 90/90 (Width measured horizontally from edge of water resource)

PTH determined by: 🗹 On-site vegetation 🗌 Reference site Code:

Comments:

Typical Cross Section:



Project Number:	7971165				
Project Name:	City of Oregor	ı City			
Riparian Code:	NER-1				
Riparian Chara	cterization Form	n			Part 1
General Inform	ation				
Date: 7/16	6/98	•			
On-site 🗹 Office			Reach Length:	1,600	
Investigators: JG/P	0		Hydrologic Basin:	Newell Creek	
Water Resourc	e Information				
Water Resource:	Stream/River 🖌	Width:	8		
	Lake/Pond	Width:	0		
	Wetland	Width:	0		
LWI Wetland Code:	NE-7				
Water present year	-round: Yes				
Are salmonids pres	ent in the adjacent w	ater reso	ource: Yes		
Is the water resource	e listed for temperat	ure on D	EQ's 303(d) list: N	c	
Within FEMA-mapp	ed 100-year floodpla	ain: No			
Mapped soil series:	8B, 92F				•
Adjacent Land Us	es?		. <u></u>		
Agriculture	Residential 🖌	Und	developed 🗌		
Commercial	Roads 🖌 🖌	Fore	estry 🗌		
Woody Vegetatio	n		Herbaceous V	'egetation	······································
Acer macrophyllum			Polystichum m	unitum	
Thuja plicata			Hydrophyllum	tenuipes	
Alnus rubra			Urtica dioica		
Acer circinatum			Geranium robe	ertianum	
Oemieria cerasitorm	lis		Claytonia sibiri	Ca	
Ilex aquifolium					
Vaccinium occident	ale				
			\sim_{η}		

Project Number:	7971165		•
Project Name:	City of Oregon City		
Riparian Code:	NER-1		
Riparian Charac	terization Form		Part 2
Average slope in the	e riparian area: (Question 1)		
□ <10:1 (10%)	☐ Between 10:1 (10%) and 5:1 (20%)	☑ >5:1 (20%)	
Extent of imperviou	is surface within the riparian area: (Ques	tion 4)	
✔ <10% □ 10	0% to 25% □ >25%		
The reach is cons	stricted by man-made features.		
The orientation al	llows for shading of the water resource	at midday in summer.	
Dominant vegetation	n layer within the riparian area:		
Voody vegetatio	on	Bare ground	
Woody vegetation	n hangs over the edge of the water.		
🔽 Large woody deb	oris in riparian area.		
Percent of water res	source bordered by vegetated riparian a	rea at least 30 feet wide:	
✔ >40% □ 10	0% to 40% 🗌 <10%		
Degree of developm	nent or human cause disturbance:		

✓ <25% □ 25% to 75% □ >75%

Project Number:	7971165
Project Name:	City of Oregon City
Riparian Code:	NER-1

Riparian Function Assessment Answer Sheet

Water Quality

Question 1:	1
Question 2:	3
Question 3:	3
Question 4:	3
Question 5:	2
Total Points:	12

Flood Management

Question 6:	3
Question 7:	3
Question 8:	3
Total Points:	9

Thermal Regulation

Question 9:	3
Question 10:	3
Question 11:	2
Total Points:	8

Wildlife Habitat

Question 12:	3
Question 13:	3
Question 14:	2
Question 15:	3
Question 16:	3
Question 17:	3
Question 18:	1
Question 19:	3
Total Points:	21

Function:			
🖌 High			
🗌 Medium			
Low			

Function:

✓ High
☐ Medium

Low

Function: ☑ High □ Medium

Low

Function:				
🖌 High				
	Medium			
	Low			

OREGON CITY LOCAL WETLANDS INVENTORY

- Wetland Summary Sheet -

Date(s) of Field Verification: 7/21/98 Investigator(s): KC/PO Wetland Mapping Code: NE-8 Size (acres): 1

Location

Legal: T3S R2E S4

Other: NE of intersection of Hwy. 213 & Beavercreek Rd.

Basin: Newell Creek

Soils

Mapped Series: 8B

Hydrology

Hydrologic Source: Surface flow

Wetland Classification(s): PSS

Dominant Vegetation			
Trees	Shrubs	Vines	Herbs
Fraxinus latifolia Populus balsamifera Alnus rubra	Cornus sericea Rubus spectabilis	Rubus discolor Rubus laciniatus Rubus ursinus	Phalaris arundinacea Carex obnupta Solanum dulcamara Carex deweyana Convolvulus arvensis Geum macrophyllum Holcus lanatus Epilobium watsonii
Comments:			

Newell Creek meanders through backyards and culverts under streets. The vegetation is highly disturbed. Some evidence of flooding was noted.

Wetland Classification Codes:PFO = palustrine forestedPSS = palustrine scrub-shrubRSB = riverine streambed (intermittent)PEM = palustrine emergentPOW = palustrine open waterRUB = riverine unconsolidated bottom

SHAPIRO Project Number: 7971165

WETLAND [DETERMINATI		DATA SHEET - 19	87 MANUAL		
Client/Applicant: City of Oregon City			te: <u>NE-8</u>		Plot:55	
T <u>3S</u> R <u>2E</u> <u>S_4</u> City:	City: Oregon City County: Clackamas			State: OR		
Plot Location; Topography Bank of stream N of Inskeep Environmental Learning Center						
Project #: <u>7971165</u> Determined by: <u>KC/PO</u> Date: <u>7/21/98</u>						
		.	DETERMINATION: IS	THIS PLOT IN A	A WETLAND?	:Yes
		D	o Normal Circumstar	nces exist on th	ne site?	Yes
Ar	e Soils Vege	etatio	n Hydrology	significantly o	disturbed?	No
VEGETATION Dominant Plant Speci Herb Stratum - % total cover:	ies Ind.%Co	ver: 70	Shrub/Sapling Stratu	um - % tótal cov	Ind. %C	over: 15
Phalaris arundinacea	FACW	20	Cornus Sericea		FACW	100
Carex obnupta	OBL	20				
Solanum dulcamara	FAC+	10				
Carex deweyana	FACU	10				
Convolvulus arvensis	UPL	10				
Geum macrophyllum	FACW	10				
Holcus lanatus	FAC	10				
Epilobium watsonii	FACW	5				
Woody Vine Stratum - % total cove	er:	30	Tree Stratum - % tota	al cover:		50
Rubus spectabilis	FAC+	60	Fraxinus latifolia		FACW	20
Rubus discolor	FACU	20	Populus balsamifera		FAC	15
Rubus laciniatus	FACU	10	Alnus rubra		FAC	15
Rubus ursinus	FACU	10		• • • • • • • • • • • • • • • • • • •		
Percent of Dominant Species that an	re OBL, FACW, or	FAC	(excluding FAC-) 8	_ of <u>11</u> =	73 % (50/20	Rule)
		<u>\</u>	/egetation Criterion M	Aet?		Yes
SOILS Mapped Unit Name: Bornst	ead silt loam			- · •		
Tayonomy: Fine-s	ately well drained	Typi	- Hanloverults			
Horizon Denth Matrix Color	Redox Abundanc	e Siz		Texture	Structure Of	ther
0-10" 10 YR 3/2	mottles abundant	medi	um 7 5 YR 5/8	Silty cla	v loam	
$\frac{10-18"}{10-18"}$ $\frac{10}{75}$ YR 3/1	mottles abundant,	coars	$\frac{1}{100} = 75 \text{ YR } \frac{4}{6}$	<u> </u>	m	
Image: State of the state			Redox features Concretions Highly organic surface I	☐ Organi ☐ Organi ayer ☐ On hyd	ic streaking ic pan dric soils list	
		<u>,</u> 8	Soil Criterion Met?	ter an an	4	Yes
HYDROLOGY						
Depth of inundation <u>N/A</u>	Depth to wate	r table	e: <u>>18"</u> [Depth to saturati	on: <u>12"</u>	
Primary Indicators: See	condary Indicator	rs (2 d	or more required):			
 ☐ Inundated ☑ Saturated in upper 12" ☑ Water marks ☑ Drift lines ☑ Sediment deposits ☑ Drainage patterns 	Oxidized rhizosphe Water-stained leav Recorded data (ae Explain: Other Explain:	eres ves rials,	☐ Local soil su ☐ FAC-Neutral groundwater data)	rvey data test		
		ł	Hydrology Criterion M	let?		Yes

•

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLGY

Date(s): 7/21/98	Investigator(s): KC/PO
Project Name: City of Oregon City	
WetlandCode: NE-8	ProjectNumber: 7971165

Wild	life 🐈	Fish I	labitat	Fish Habitat	, M	ater	Hydro	ologic	Sensit	ivity to
Hab	itat 🖓 🗄	: Stre	ams 🕺	Lakes/Ponds	,Qı	iality :	Cor	itrol	a imp	act
Q1:	A	Q1:	В	Q1:	Q1:	A	Q1:	В	Q1:	A
Q2:	Α	Q2:	В	Q2:	Q2:	А	Q2:	А	Q2:	В
Q3:	В	Q3:	В	Q3:	Q3:	В	Q3:	С	Q3:	C
Q4:	С	Q4:	A	Q4:	Q4:	В	Q4:	В	Q4:	А
Q5:	А	Q5:	С	Q5:	Q5:	A	Q5:	А	Q5:	А
Q6:	А	Q6:	А	Q6:	Q6:	С	Q6:	А	Q6:	Α
Q7:	Α			<u> </u>			Q7:	А		
Q8:	С								I	
Q9a:										

Enhancement Potential	Educa	ation	Recre	ation	Aes Qu	thetic ality
Q1: B	Q1:	С	Q1:	С	Q1:	В
Q2: A	Q2:	А	Q2:	С	Q2:	В
Q3: C	Q3:	В	Q3:	С	Q3:	С
Q4: C	Q4:	С	Q4:	В	Q4:	В
Q5a:	Q5:	C	Q5:	В	Q5:	А
Q5b: C	Q6:	В	Q6:	В	Q6:	В
Q6: B					L	

С

Q9b:

Wildlife Habitat:	The wetland provides habitat for some wildlife species.
Fish Habitat - Streams:	The wetland's fish habitat function is impacted or degraded.
Fish Habitat - Lakes/Ponds:	N/A
Water Quality: and the Parts	The wetland's water quality function is impacted or degraded.
Hydrologic Control * 14 *	The wetland's hydrologic control function is intact.
Sensitivity to impact.	The wetland is potentially sensitive to future impacts.
Enhancement Potential:	The wetland has little enhancement potential.
Education:	The wetland site is not appropriate for educational use.
Recreation:	The wetland is not appropriate for or does not provide recreational opport
Aesthetic Quality:	The wetland is considered to be moderately pleasing.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLGY

Function and Condition Summary Sheet for the Oregon Method

Hydrologic Control

Sensitivity to Impact

WetlandCode: NE-8		ProjectNumber: 7971165
Function	• Evaluation Descriptor	Rationale and the second
Wildlife Habitat	The wetland provides habitat for some wildlife species.	Two or more Cowardin wetland classes. Woody vegetation is dominant vegetation cover. Moderate degree of Cowardin class interspersion. Less than 0.5 acre of unvegetated open water present. Wetland connected to another body of water by surface water. Wetland connected to other wetlands within a 3 mile radius. Upstream not listed as water quality limited. Residential/Industrial land use within 500 feet of wetland edge.
Fish Habitat - Streams	The wetland's fish habitat function is impacted or degraded.	Between 50 and 75% of stream shaded by riparian vegetation. Portions of stream channel modified. Stream contains between 10 and 25% of instream structures. Upstream not listed as water quality limited. Residential/Industrial land use within 500 feet of wetland edge. Salmon, trout, or sensitive species present sometime during the year.
Fish Habitat - Lakes/Ponds	N/A	
Water Quality	The wetland's water quality function is impacted or degraded.	Surface flow (including streams and ditches) is wetland's primary source of water. Evidence of flooding or ponding during part of the growing season. Moderate (approx. 60%) degree of wetland vegetation cover. Between 0.5 and 5 acres of wetland connected to other wetlands within a 3 mile radius. Residential/Industrial land use within 500 feet of wetland edge. Upstream not listed as water quality limited in watershed or adjacent to the wetland.

The wetland's hydrologic No part of wetland located within 100-year control function is intact. floodplain or enclosed basin. Evidence of flooding or ponding during the growing season. Area is less than 0.5 acre. Minor restrictions slow down waterflow out of the wetland. Woody vegetation is dominant cover type. Residential/Industrial land use within 500 ft of wetland on downstream or downslope edge of wetland. Urban or Urbanizing land use in watershed upstream from area. Stream flow or bank has been modified by The wetland is potentially sensitive to future impacts.

human activities within 1 mile above wetland. Water is not being taken out of streams through active diking, drainage, or irrigation districts upstream. Upstream not listed as water quality limited in watershed upstream of the or adjacent to the wetland. Residential/industrial (developed) land use

within 500 feet of wetland's edge. Dominant

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLGY

WetlandCode: NE-8 ProjectNumber: 7971165 **Function Evaluation Descriptor** Rationale Residential/Industrial (developed) land use within 500 feet of wetland's edge. Woody vegetation is the dominant cover. Enhancement Potential The wetland has little Wetland has lost one or more functions or enhancement potential. one or more functions is not present in assessment results for wildlife habitat, fish habitat, water quality and hydrologic control. Wetland's primary source of water is surface flow, including streams and ditches. Water flow into wetland is restricted and cannot be restored. Wetland's area is less than 0.5 acre. Less than 10% of wetland's edge is bordered by a vegetative buffer 25 or more feet wide. Wetland is potentially sensitive to future impacts. The wetland site is not Wetland site is not open to the public for Education direct access or observation. There are no appropriate for educational visible hazards to the public at the wetland use. site. Provides wildlife habitat for some species, or fish habitat is impacted or degraded. There is no existing physical public access to other features, and observation of other features cannot be made. There is not an existing access point within 250 feet of the wetland's edge (if existing-hazardous). Access is not available for limited mobility. The wetland is not There is not an existing access point within Recreation appropriate for or does not 250 feet of the wetland's edge (if existingprovide recreational hazardous). Wetland not accessible by boatopportunities. no boat launch within 1 mile/ cannot develop. No existing trails and viewing areas to guide user or if created, would disrupt wildlife or plant habitat. Wetland provides habitat for

Function and Condition Summary Sheet for the Oregon Method

		some species. Fishing is not allowed at wetland or adjacent water body (or not applicable). Hunting is not allowed at the wetland.
Aesthetic Quality	The wetland is considered to be moderately pleasing.	Two Cowardin classes are visible from primary viewing area(s). Between 25 and 50% of wetland is visible from viewing area(s). General appearance of wetland has visual detractors which cannot be removed easily. Visual character with surrounding area is landscaped or manipulated by people. Natural, pleasant odors are present at primary viewing location. Continuous traffic and other intrusive noise and natural sounds are audible at primary viewing location.