

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)



Wetland Assessment Summary Sheet

Pacific Habitat Services, Inc.

Project Name:	Corvallis Natural Resource Inventory	Wetland:	WC-OAK-M90-17
Project Location:	Benton County	Wetland Type(s):	PEM,PEMf
Date(s) of field work:	5/23/2002, 6/25/02, 6/13/02	Approx. Area (acres):	125.00
Onsite Assessment?:	YES	Investigator(s):	PF/JVS/CR
Wetland Location:	North of Oak Creek Drive, west of Walnut		

Function and Condition Assessment Answers

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	B	Q-1	B	Q-1	B
Q-2	C	Q-2	C	Q-2	A	Q-2	A	Q-2	B
Q-3	B	Q-3	C	Q-3	B	Q-3	A	Q-3	C
Q-4	C	Q-4	A	Q-4	A	Q-4	C	Q-4	B
Q-5	A	Q-5	B	Q-5	B	Q-5	C	Q-5	A
Q-6	A	Q-6	B	Q-6	C	Q-6	B	Q-6	C
Q-7	A					Q-7	C		
Q-8	B								
Q-9A									
Q-9B	C								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	C	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	A	Q-4	B	Q-4	B	Q-4	A
Q-5B	C	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

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Functions and Conditions Summary Sheet



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Location:	Benton County	Approx. Area (acres):	125.00
Date:	5/23/2002, 6/25/02, 6/13/02	Wetland Types(s):	PEM,PEMf
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is less than 10%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	Less than 25% of stream is shaded	No adjacent Water Quality Limited streams	
	Stream banks are extensively modified	Adjacent land use is primarily agriculture	
	<10% of stream has instream structures	Warmwater fish present in stream	
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is precipitation	Wetland is more than 5 acres in size	
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture	
	Moderate vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Agriculture downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	Wetland functions are impacted or degraded	Wetland is greater than 5 acres	
	Primary water source is precipitation	Wetland buffer is less than 10%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Corvallis Natural Resource Inventory	Wetland:	WC-OAK-M90-17
Project Location:	Benton County	Approx. Area (acres):	125
Date:	5/23/2002, 6/25/02, 6/13/02	Wetland Type(s):	PEM,PEMf

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and		
a. created for the purpose of controlling, storing, or maintaining stormwater	<input type="checkbox"/>	No
b. is used for active surface mining or as a log pond	<input type="checkbox"/>	No
c. is a ditch without a free and open connection to natural waters of the state	<input type="checkbox"/>	No
d. is less than 1 acre and created unintentionally from irrigation or construction	<input type="checkbox"/>	No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard	<input type="checkbox"/>	No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)	<input type="checkbox"/>	No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?	<input type="checkbox"/>	No
2 Is the wetland's <i>fish habitat function intact</i> ?	<input type="checkbox"/>	No
3 Is the wetland's <i>water quality function intact</i> ?	<input type="checkbox"/>	No
4 Is the wetland's <i>hydrologic control function intact</i> ?	<input type="checkbox"/>	No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?	<input type="checkbox"/>	No
6 Does the wetland contain a rare plant community?	<input type="checkbox"/>	No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?	<input type="checkbox"/>	No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?	<input type="checkbox"/>	No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .	<input type="checkbox"/>	No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?	<input type="checkbox"/>	No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Wetland Characterization Sheet



Project Name: Corvallis Natural Resource Inventory

		Wetland Code:	WC-OAK-M90-17
Date(s) of field work:	5/23/2002, 6/25/02, 6/13/02	Size (acres):	125.00
Data Sheet Numbers:	55,57,60-1,66-9,73-4,87,89,91-2,94-5,98,112-4,123,126,130	Cowardin Class(es):	PEM,PEMf
Investigator(s):	PF/JVS/CR	HGM Class(es):	S/F, RFT

Location -- Legal:	T. 11S, R. 5W, S. 32
Other:	North of Oak Creek Drive, west of Walnut
Tax Lots:	See accompanying table
Hydrologic basin:	Oak Creek
Soil -- Mapped series:	Bashaw silty clay loam, Bashaw clay
Hydrologic Source:	Precipitation, groundwater

Dominant Wetland Vegetation			
TREES / SHRUBS		VINES / HERBS	
<i>Fraxinus latifolia</i>	Oregon Ash	<i>Alopecurus pratensis</i>	Meadow Foxtail
		<i>Carex densa</i>	Dense Sedge
		<i>Eleocharis palustris</i>	Common Spikerush
		<i>Carex unilateralis</i>	One-Side Sedge
VINES / HERBS			
<i>Holcus lanatus</i>	Common Velvet Grass	<i>Alopecurus geniculatus</i>	Water Foxtail
<i>Myosotis discolor</i>	Yellow and Blue Forget-Me-Not	<i>Veronica americana</i>	American Speedwell
<i>Agrostis tenuis</i>	Colonial Bentgrass	<i>Sisyrinchium angustifolium</i>	Pointed Blue-Eye-Grass
<i>Juncus ensifolius</i>	Dagger-Leaf Rush	<i>Ranunculus repens</i>	Creeping Butter-Cup
<i>Rumex crispus</i>	Curly Dock	<i>Juncus bufonius</i>	Toad Rush
<i>Mimulus guttatus</i>	Yellow Monkey-Flower	<i>Juncus tenuis</i>	Slender Rush

Comments:
 Very large slope/flats wetland drains south to Oak Creek. Wetland/ upland mosaic in lower field (90% wetland, 10% upland). Several shallow intermittent drainages from hills to north. Majority of wetland is farmed or grazed, with small areas of forested in the stream headwaters. Part of wetland is privately owned and part is OSU Equestrian center and undeveloped lands. Several small drainages flow from hill to north towards Oak Creek.
 Adjacent Upland Species: *Lolium multiflorum*, *Daucus carota*, *Cirsium arvense*, *Quercus garryana*, *Rhus diversiloba*, *Chrysanthemum leucanthemum*, *Trifolium dubium*, *Festuca arundinacea*, *Hypochaeris radicata*, *Avena* sp., *Bromus* sp., *Madia glomerata*, *Epilobium paniculatum*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
	S = Slope	F = Flats	