

**ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT**

STREAM: Golf Creek (L-33)
BASIN: Clackamas River
SURVEY TYPE: Pre-Tx
DATE: February 23, 2000
SURVEY CREW: Peggy Kavanagh, Jennifer Bock
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 2.0 km²
USGS MAPS: Elwood
ECOREGION: Willamette Valley Foothills

GENERAL DESCRIPTION:

The Golf Creek habitat survey extended 514 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 15.8 (range: 3.0 – 20.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 6.4 percent. Cascades (37%) and rapids (36%) dominated stream habitat. Gravel (38%) and sand (29%) dominated stream substrate. Wood volume was low at 15.9 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

REACH 1

T4S-R4E-S6SE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	15.8	VWI Range:	3 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	514	950	0
Secondary	18	20	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	1.8	Width	2.7	3.6	8.9
Depth	0.20	Height	0.3	0.6	1.5
		W:D ratio	9.1	Entrenchment	1.3

Stream Flow Type:	HF	Water temp (C):	-
Avg. Unit Gradient:	6.4%	Habitat Units/100m:	8.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	56	10.9
Volume (m ³):	82	15.9
Key pieces (>=10m x 0.60m):	7	1.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

GOLF CREEK PRE-TX (L-33)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

2/23/00

REACH 1		T4S-R4E-S6SE					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	10	211	1.6	0.10	355	0	4	11	30	42	13	0
CULVERT CROSSING	1	5	1.3	0.20	6	0	0	48	14	38	0	0
POOL-BACKWATER	1	2	1.8	0.10	3	0	20	70	10	0	0	0
POOL-DAMMED	2	10	1.8	0.33	17	0	25	62	13	0	0	0
POOL-LATERAL SCOUR	6	30	1.9	0.38	56	0	3	50	31	16	0	0
POOL-PLUNGE	6	11	2.5	0.43	28	0	2	37	35	21	5	0
POOL-STRAIGHT SCOUR	1	12	0.5	0.30	6	0	0	28	67	6	0	0
RAPID/BOULDERS	7	175	2.0	0.12	353	0	1	22	51	24	1	2
RIFFLE	3	70	1.8	0.12	134	0	0	12	80	8	0	0
STEP/BOULDERS	1	0	1.3	0.10	1	0	0	0	50	0	50	0
STEP/COBBLE	1	1	1.7	0.10	1	0	11	67	22	0	0	0
STEP/LOG	5	7	1.3	0.11	10	0	0	27	35	28	11	0
Total:	44	532	1.8	0.20	970	0	Avg 4	29	38	23	6	0

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	3	12	1.8	0.25	21	2.15%	0	0.0
Scour Pools	13	52	2.1	0.39	90	9.24%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	3	70	1.8	0.12	134	13.80%	0	0.0
Rapids	7	175	2.0	0.12	353	36.38%	0	0.0
Cascades	10	211	1.6	0.10	355	36.64%	0	0.0
Step/Falls	7	8	1.3	0.11	11	1.17%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	5	1.3	0.20	6	0.62%	0	0.0

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	16	31.1
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	1	1.9
Pool frequency (channel widths/pool):	12.1	
Residual pool depth (avg):	0.25	

STREAM SUMMARY

GOLF CREEK PRE-TX (L-33)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
44	532	1.8	0.20	970	4	29	38	23	6	0	

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	21	2.15%
Scour Pools	90	9.24%
Glides	0	0.00%
Riffles	134	13.80%
Rapids	353	36.38%
Cascades	355	36.64%
Step/Falls	11	1.17%
Dry	0	0.00%
Culverts	6	0.62%

Comment Summary

Restoration Monitoring Sites 2003

MONITORING AREA: 6-LC SITE ID: 33 GOLF CREEK PRE-TX (L-33)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RB	00	31.6		STRT@MOUTH, VWI= 20+	
4	SL	00	51.5		H= 0.5	
7	SL	00	98.2		H= 0.85	
11	LP	00	139.9		VWI= 20+	
12	RI	00	173.2		WHITS FLAG	
13	SP	00	184.8	BC	OLD WOOD BRIDGE	
14	RI	00	193.8		INFIELD	
15	SC	00	194.4		H=0.4	
16	DP	00	199.1		BLACKBERRIES	
17	RB	00	222.2		VWI= 20.0	
20	RB	00	268.4		ESTIMATED THIS UNIT	
22	CC	00	279.2	CC	C= 1.0	
23	RB	00	295.8	TJ/	TRIB(WE THINK) NOT SU	
25	CB	00	313.6		HARDPAN SILT, BLACKBE	
28	SB	00	342.4		H= 0.4	
30	SL	00	358		H= 1.3, PLACED LOG	
31	RB	00	371.8		OUT OF BLACKBERRIES	
36	PP	00	392.1		H= 0.45	
40	SL	00	428.5		H= 0.55	
43	CB	01	513.9		VWI= 3.0	

