

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

STREAM: Golf Creek (L-33)
BASIN: Clackamas River
SURVEY TYPE: Post-Tx
DATE: February 7, 2001
SURVEY CREW: Eric Brown, Joe Zuccarello
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 510 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 13.3 (range: 1.8 – 20.0). Land use for the reach was agriculture. The average unit gradient was 7.6 percent. Rapids (31%), riffles (29%) and cascades (27%) dominated stream habitat. Gravel (43%) dominated stream substrate. Wood volume was high at 41.1 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

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 avg: 13.3 range: 1.8-20.0

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	510	878	0
Secondary	10	4	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	1.7	Width	2.5	5.1	7.9
Depth	0.16	Height	0.4	0.8	1.9
		W:D ratio	5.9	Entrenchment	2.2

Stream Flow Type: MF Water Temp: 7.0-7.0°C
 Avg. Unit Gradient: 7.6% Habitat Units/100m: 6.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	AG	
Riparian Vegetation:	C50	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 0%
Undercut Banks	0%	Range: 0- 0

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	113	22.1
Volume (m ³)	210	41.1
Key pieces (≥10m x 0.6m)	11	2.2

HABITAT UNIT SUMMARY

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	Cbbl	Bldr	Bdrk
CASCADE/BOULDERS	6	155	1.4	0.10	226	0	3	4	21	29	43	0
CULVERT CROSSING	2	9	1.3	0.23	12	0	5	30	65	0	0	0
GLIDE	2	12	2.6	0.30	25	0	10	18	68	5	0	0
POOL-LATERAL SCOUR	4	23	1.5	0.26	36	0	29	13	43	13	4	0
POOL-PLUNGE	1	2	3.9	0.55	7	0	10	10	20	30	30	0
POOL-STRAIGHT SCOUR	3	16	2.7	0.37	41	0	13	23	55	7	2	0
RAPID/BOULDERS	5	133	1.9	0.09	272	0	6	8	37	22	27	0
RIFFLE	8	167	1.5	0.08	254	0	11	20	62	6	1	0
STEP/BOULDERS	2	5	1.5	0.04	7	0	0	0	10	0	90	0
STEP/LOG	1	1	0.8	0.05	0	0	0	30	10	30	30	0
Total:	34	521	1.7	0.16	882	0	Avg:10	14	43	14	19	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	8	41	2.3	0.34	84	9.54	0	0.0
Glides	2	12	2.6	0.30	25	2.87	0	0.0
Riffles	8	167	1.5	0.08	254	28.85	0	0.0
Rapids	5	133	1.9	0.09	272	30.85	0	0.0
Cascades	6	155	1.4	0.10	226	25.68	0	0.0
Step/Falls	3	5	1.3	0.04	7	0.84	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	8	<u>#/Km</u>	15.4
Pools $\geq 1m$ deep:		0		0.0
Complex pools (LWD pieces ≥ 3):		3		5.8
Pool Frequency (channel widths/pool):		25.8		
Residual pool depth (avg)		0.22m		

STREAM SUMMARY

GOLF CREEK POST-TX

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area					Total Large Boulder	
					S/O	Sand	Grvl	Cbbl	Bldr		Bdrk
34	521	1.7	0.16	882	10	14	43	14	19	0	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	84	9.5
Backwater Pools	0	0.0
Glide	25	2.9
Riffle	254	28.9
Rapid	272	30.8
Cascade	226	25.7
Step	7	0.8
Dry	0	0.0

10 5 49 000m

10 5 50 000m

10 5 51 000m

10 5 52 000m

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

122° 22' 30"
45° 15'

50 000m-E

51

52 20'

53

50 11 000m

50 10 000m

50 09 000m

50 08 000m

50 07 000m

50 06 000m

50 11 000m

50 10 000m

50 09 000m

50 08 000m

50 07 000m

50 06 000m

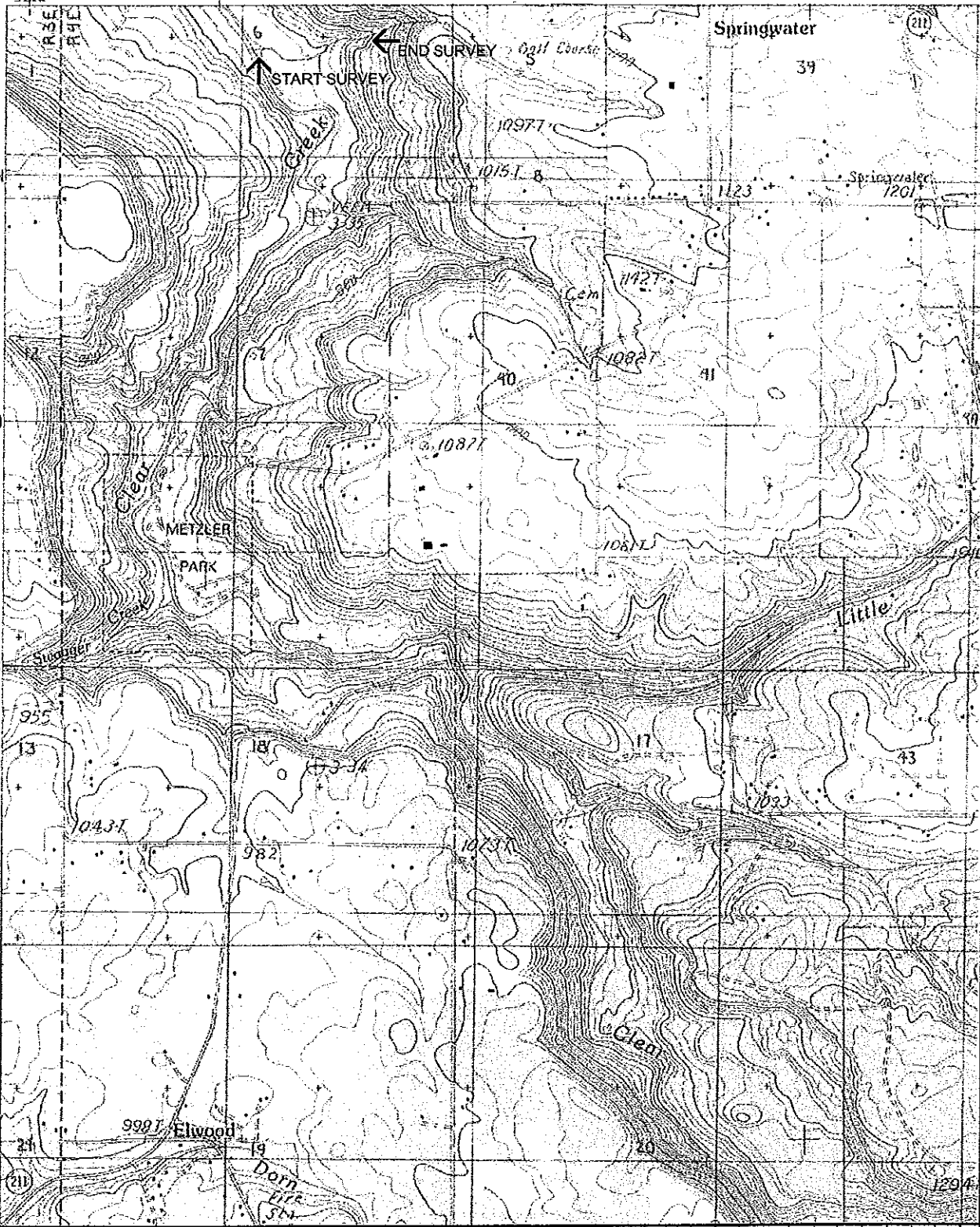
10 5 49 000m

10 5 50 000m

10 5 51 000m

10 5 52 000m

10 5 53 000m



Name: ELWOOD
Date: 11/8/100
Scale: 1 inch equals 2000 feet

Location: 10 550693 E 5008443 N
Caption: GOLF CREEK RESTORATION SITE - CLACKAMAS BASIN