

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

STREAM: Rasler Creek (MS-55)
BASIN: Coquille River
SURVEY TYPE: Post-Tx
DATE: February 21, 2001
SURVEY CREW: Peter Bower, Andy Solcz
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.4 km²
USGS MAPS: Rasler Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Rasler Creek habitat survey extended 387 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.4 (range: 2.0 –3.0). Land use for the reach was large (30-50 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 2.5 percent. Riffles (68%) dominated stream habitat. Cobble (32%) and gravel (31%) dominated stream substrate. Wood volume was high at 42.8 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 SUMMARY

REACH 1

T30S-R11W-S23NE

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	100	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 2.4 range: 2.0-3.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
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	387	1,125	0
Secondary	19	14	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 2.8	4.2	6.5	5.1
Depth 0.29	Height 0.4	0.9	1.5
	W:D ratio 9.9	Entrenchment 1.4	

Stream Flow Type: MF Water Temp: 7.0-7.0°C
Avg. Unit Gradient: 2.5% Habitat Units/100m: 7.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	YT
Riparian Vegetation:	C30	D15

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 ($\geq 3m \times 0.15m$)	77	19.9
Volume (m ³)	166	42.8
Key pieces ($\geq 10m \times 0.6m$)	6	1.6

HABITAT UNIT SUMMARY

REACH 1

T30S-R11W-S23NE

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
POOL-BACKWATER	1	2	2.6	0.60	6	0	32	32	26	11	0	0
POOL-DAMMED	1	14	2.7	0.60	37	0	9	36	23	27	5	0
POOL-LATERAL SCOUR	7	53	2.8	0.51	150	0	9	25	31	30	5	0
POOL-PLUNGE	1	4	3.2	0.50	13	0	6	33	44	11	6	0
POOL-STRAIGHT SCOUR	1	6	3.7	0.50	22	0	8	24	36	8	24	0
RAPID/BOULDERS	2	41	3.3	0.13	133	0	0	7	34	33	19	7
RIFFLE	16	286	2.7	0.16	779	0	2	20	31	37	11	0
STEP/LOG	1	1	2.1	0.10	1	0	0	50	20	30	0	0
Total:	30	406	2.8	0.29	1,140	0	Avg: 5	23	31	32	10	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Number	Boulders #/100m ²
Dammed & BW Pools	2	16	2.7	0.60	43	3.76	0	0.0
Scour Pools	9	63	2.9	0.51	184	16.11	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	16	286	2.7	0.16	779	68.33	0	0.0
Rapids	2	41	3.3	0.13	133	11.70	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	1	1	2.1	0.10	1	0.10	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

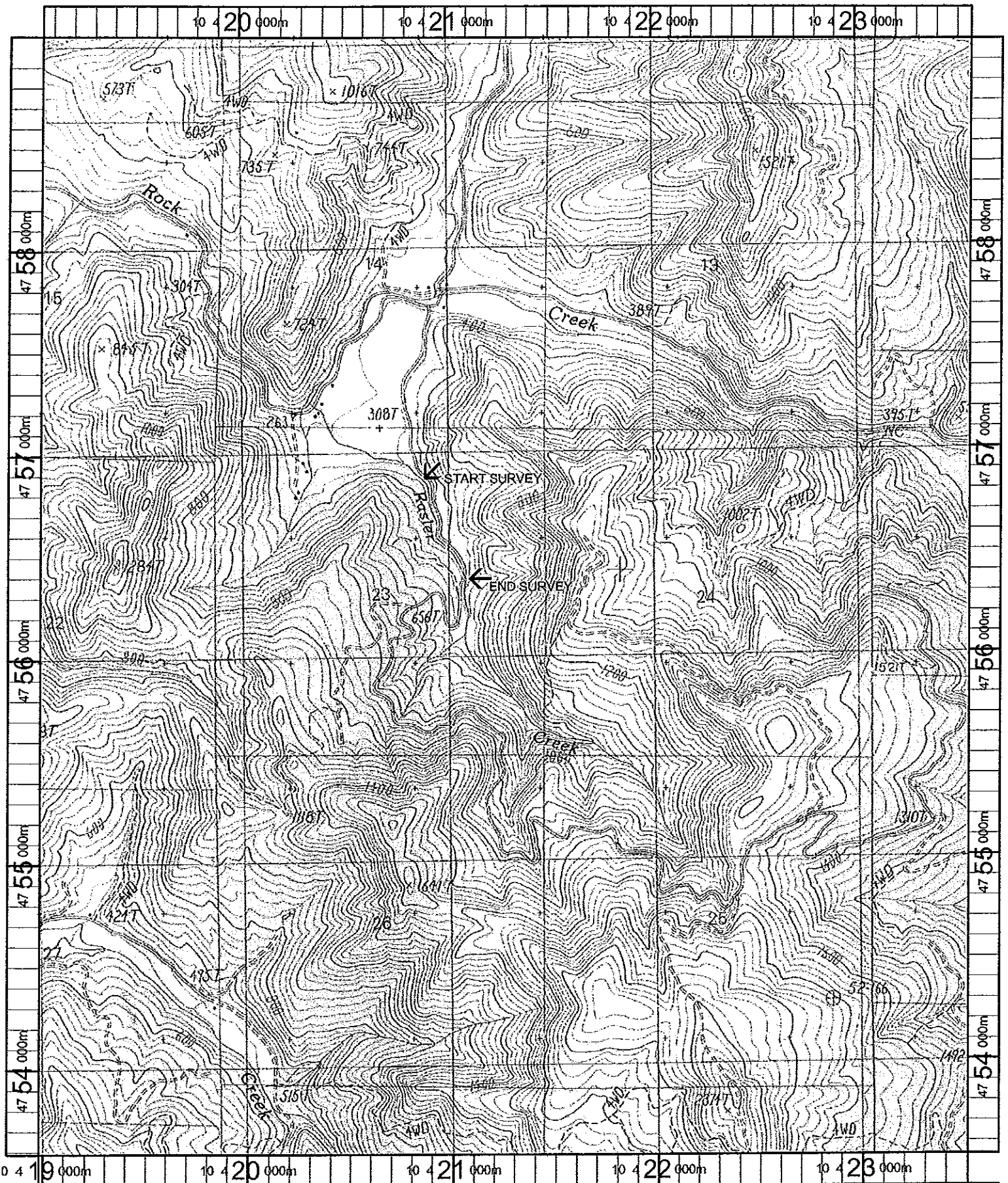
All Pools	<u>Total</u>	<u>#/Km</u>
	11	27.1
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	5	12.3
Pool Frequency (channel widths/pool):	8.7	
Residual pool depth (avg)	0.38m	

STREAM SUMMARY

RASLER 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	
30	406	2.8	0.29	1,140	5	23	31	32	10	0	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	184	16.1
Backwater Pools	43	3.8
Glide	0	0.0
Riffle	779	68.3
Rapid	133	11.7
Cascade	0	0.0
Step	1	0.1
Dry	0	0.0



Name: RASLER CREEK
 Date: 11/7/100
 Scale: 1 Inch equals 2000 feet

Location: 10 421174 E 4756278 N
 Caption: RASLER CREEK RESTORATION SITE - COQUILLE BASIN