

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

STREAM: Catching Creek (U-127)
BASIN: South Umpqua River
SURVEY TYPE: Post-Tx
DATE: February 19, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 13.7 km²
USGS MAPS: Nickel Mtn.
ECOREGION: Coast Range Umpqua Valleys

GENERAL DESCRIPTION:

The Catching Creek habitat survey extended 513 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.4 (range: 2.5-4.5). Land use for the reach was light grazing and second growth (15-30 cm dbh) trees. The average unit gradient was 2.0 percent. Rapids (47%) and scour pools (27%) dominated stream habitat. Cobble (44%) and gravel (35%) dominated stream substrate. Wood volume was low at 13.3 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

T31S-R06W-S04NW

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.4	VWI Range:	2.5 - 4.5

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	513	2,320	0
Secondary	151	287	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 4.0	Width: 11.8	21.4 (7.2 - 37.3)	25.3 (10.5 - 41)
Depth: 0.48	Height: 0.6	1.3 (1.2 - 1.6)	1.6 (1.3 - 2)

W:D ratio: 19.2

Stream Flow Type: HF

Avg. Unit Gradient: 2.0%

Entrenchment (ACW:FPW ratio): 1.8

Water temp (°C): 8.5 - 8.5

Habitat Units/100m: 6.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	D15	C30

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):	51	9.9
Volume (m ³):	68	13.3
Key pieces (>=10m x 0.60m):	3	0.6

OREGON DEPARTMENT OF FISH AND WILDLIFE

CATCHING CREEK POST-TX (U-127)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/19/2004

REACH 1

T31S-R06W-S04NW

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	2	34	4.1	0.40	142	0	0	5	13	59	18	5
DRY UNIT	2	45	2.6	0.00	110	0	8	10	65	18	0	0
POOL-BACKWATER	1	9	2.0	0.50	18	0	0	14	71	10	5	0
POOL-LATERAL SCOUR	12	158	4.6	0.87	689	0	3	28	35	29	4	1
POOL-PLUNGE	1	3	6.2	0.60	19	0	5	30	60	5	0	0
RAPID/BOULDERS	16	303	3.8	0.29	1,215	0	1	6	27	62	3	0
RIFFLE	6	105	3.6	0.39	384	0	2	13	48	35	2	0
STEP/COBBLE	1	7	4.3	0.35	30	0	0	5	15	65	15	0
Total:	41	664	4.0	0.48	2,607	0	Avg: 2	14	35	44	4	1

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	1	9	2.0	0.50	18	0.69%	0	0.0
Scour Pools	13	161	4.7	0.85	708	27.16%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	6	105	3.6	0.39	384	14.73%	0	0.0
Rapids	16	303	3.8	0.29	1,215	46.60%	0	0.0
Cascades	2	34	4.1	0.40	142	5.43%	0	0.0
Step/Falls	1	7	4.3	0.35	30	1.15%	0	0.0
Dry	2	45	2.6	0.00	110	4.23%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km	
All Pools:	14	21.1	151
Pools >=1m deep:	4	6.0	
Complex pools (LWD pieces>=3):	4	6.0	
Pool frequency (channel widths/pool):	4.0		
Residual pool depth (avg):	0.52		

STREAM SUMMARY

CATCHING CREEK POST-TX (U-127)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
41	664	4.0	0.48	2,607	2	14	35	44	4	1	

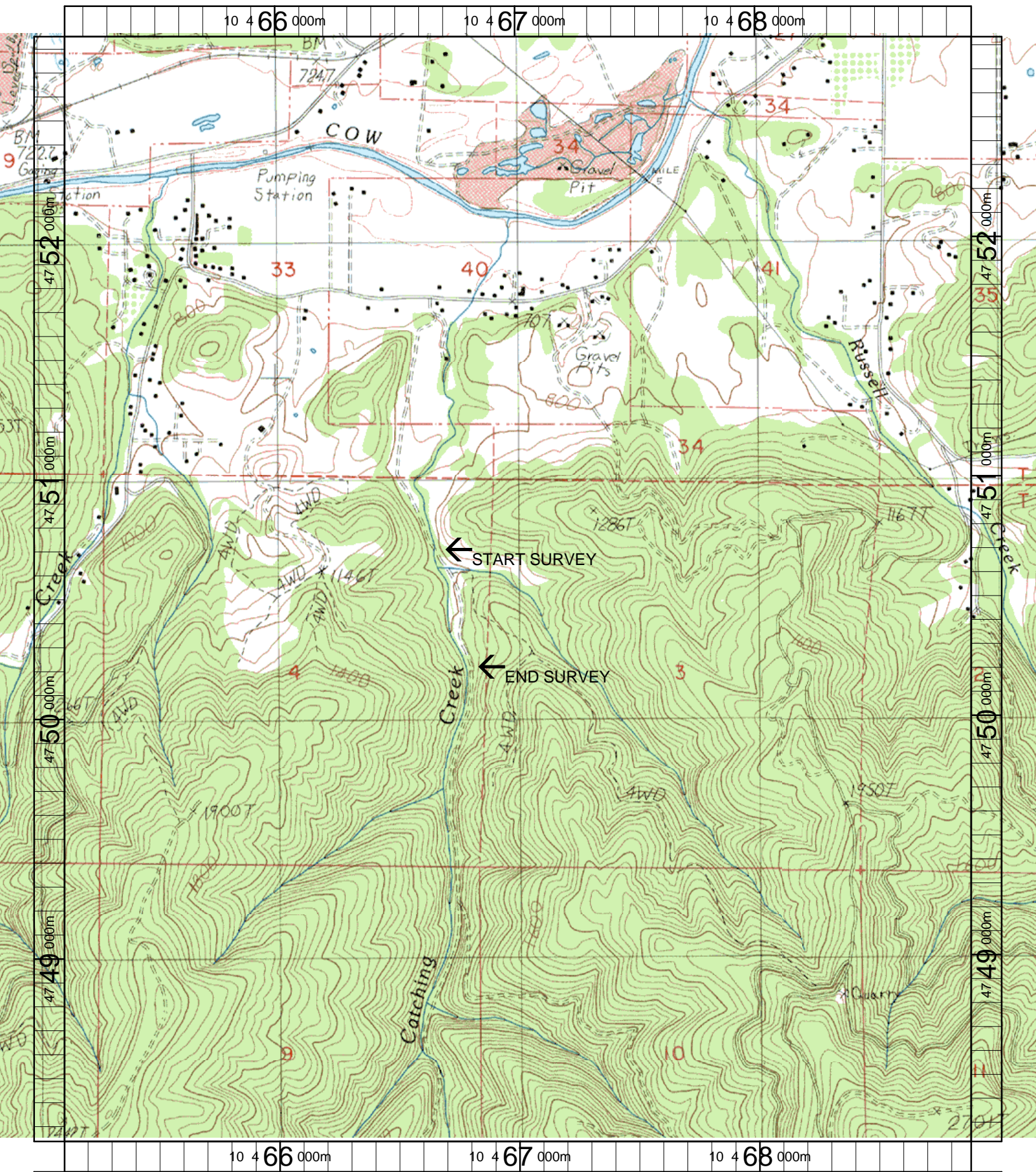
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	18	0.69%
Scour Pools	708	27.16%
Glides	0	0.00%
Riffles	384	14.73%
Rapids	1,215	46.60%
Cascades	142	5.43%
Step/Falls	30	1.15%
Dry	110	4.23%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **127** CATCHING CREEK POST-TX (U-127)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
2	LP	00	43.2	HS		
4	LP	00	84.7		T=8.5M	
6	RI	00	119.5	HS	"SITE 5-2 LOGS" FLAG	
10	LP	01	170.4	HS	"SITE 6, 4 LOGS"-FLAG	
11	RB	02	170.4	BV		
12	LP	02	170.4	HS		
15	LP	01	206.7	TJ/		
16	RI	11	206.7		T=8.5C, ACW=3.4M	
21	LP	00	274.9	HS		
33	LP	01	463.8	HS	SITE 8-FLAG	
39	CB	00	485.3	HS		
40	RI	00	495.8	HS	"SITE 9, 3 LOGS" FLAG	
41	LP	00	513		EOS	



Name: NICKEL MT
 Date: 6/11/2003
 Scale: 1 inch equals 1666 feet

Location: 10 466998 E 4750540 N
 Caption: CATCHING CREEK RESTORATION SITE - COW CR./S.
 UMPQUA BASIN