

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

STREAM: Catching Creek (UMP-127)
BASIN: Umpqua River
SURVEY TYPE: Post-Tx
DATE: February 25, 2008
SURVEY CREW: Kyle Brachter, Bobby Gomez
REPORT PREPARED BY: Sharon Tippery
BASIN AREA: 12.6 km²
USGS MAPS: Nickel Mountain
ECOREGION: Coast Range Umpqua Valleys

GENERAL DESCRIPTION:

The Catching Creek habitat survey extended 560 meters. The channel was alternately constrained by terrace and hillslope in a broad valley floor. The average valley width index was 11 (range: 7-15). Land use for the reach was second growth timber (15-30cm dbh) and young trees (3-15cm dbh). The average unit gradient was 3.1 percent. Rapids (56%) and scour pools (34%) dominated stream habitat. Gravel (36%) and cobble (33%) dominated stream substrate. Wood volume was 10.9m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

Juvenile salmonids, ruby-crowned kinglets, and black-capped chickadees were observed during the survey.

**OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY**

**CATCHING CREEK
GCG: 4-UMP SITE ID: 127**

Survey Date: 2/25/2008

Report Date: 5/8/2008

T31S-R06W-S04NE

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	11.0	VWI Range:	7 - 15

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	560	1,681	1
Secondary	112	200	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 2.8	Width: 3.9	11.3 (4.8 - 16.5)	13.5 (9.1 - 17)
Depth: 0.34	Height: 0.4	0.8 (0.7 - 0.9)	1.3 (1 - 1.85)

W:D ratio: 9.9

Stream Flow Type: MF

Average Unit Gradient: 3.1%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 2.8

Habitat Units/100m (total channel length): 6.5

Habitat Units/100m (primary channel length): 7.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	D15	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 primary channel</u>
All pieces (>=3m x 0.15m):	54	9.6
Volume (m ³):	61	10.9
Key pieces (>=12m x 0.60m):	1	0.2

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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
DRY UNIT	1	6	4.5	0.00	27	0	0	10	67	24	0	0
POOL-LATERAL SCOUR	17	184	3.1	0.59	610	0	0	20	35	31	13	1
POOL-PLUNGE	1	6	5.1	0.80	33	0	0	5	25	40	30	0
RAPID/BOULDERS	19	408	2.4	0.15	1,054	0	0	11	35	39	15	0
RIFFLE	2	28	2.8	0.20	84	0	0	15	46	29	10	0
RIFFLE W/ POCKETS	1	34	1.6	0.10	54	0	0	15	85	0	0	0
STEP/BOULDERS	1	3	3.0	0.20	9	0	0	10	20	35	35	0
STEP/LOG	2	3	2.9	0.23	9	0	0	45	23	18	13	0
Total:	44	672	2.8	0.34	1,881	0	Avg: 0	16	36	33	14	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	0	0			0	0.00%	0	0.0
Scour Pools	18	190	3.2	0.61	643	34.19%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	3	62	2.4	0.17	139	7.37%	0	0.0
Rapids	19	408	2.4	0.15	1,054	56.07%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	3	6	2.9	0.22	18	0.94%	0	0.0
Dry	1	6	4.5	0.00	27	1.44%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

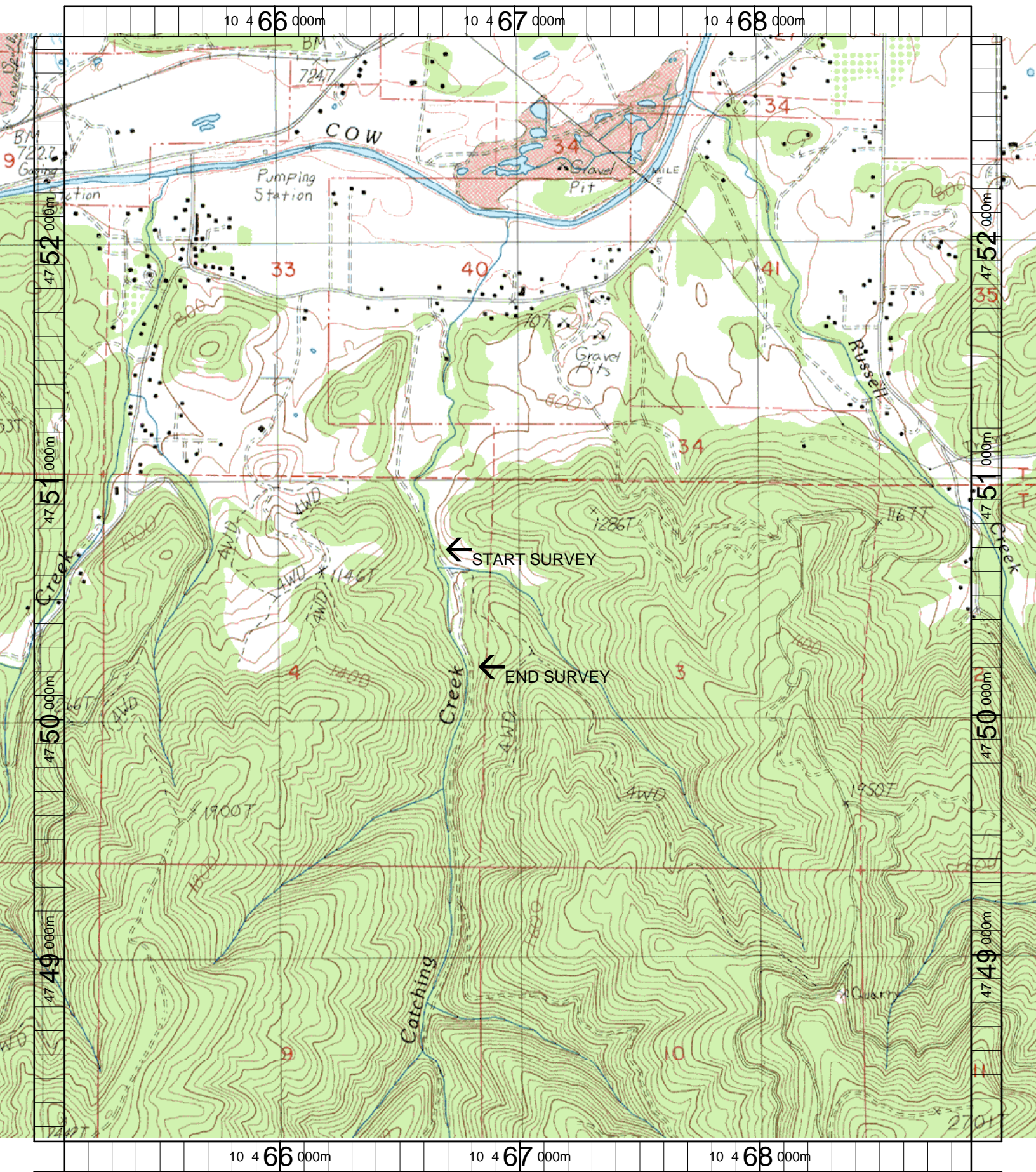
POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	18	26.8	32.1
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	3	4.5	5.4
Pool frequency (channel widths/pool):	9.5		
Residual pool depth (avg):	0.45		

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 127 STREAM: CATCHING CREEK

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RB	00	48	BC	FORM:CA,CT. VEG:D15,S. USE:ST.
2	LP	00	59		JUVENILE SALMONIDS
3	SL	00	60.3	HS	LOGS
4	RP	00	94.3	HS	JUVENILE SALMONIDS, ROOTWAD, POCKET=1M X 3M X 0.3M
5	LP	00	109.3		JUVENILE SALMONIDS
7	LP	00	126.3	HS,DJ	LOGS
8	RB	01	166.3		FORM:CA,CT. VEG:D15,S. USE:ST.
9	LP	01	171.3	HS	
11	LP	00	196.9	HS,DJ	LOGS
17	LP	01	238.4	TJ/	
18	RB	11	238.4		ACW=1.3M TEMPERATURE=8C
19	RB	00	288.4		FORM:CA,CT. VEG:D3,S. USE:ST,YT.
20	RB	01	303.9	HS	BLACK-CAPPED CHICKADEES. HS IS BACKING UP GRAVEL & SAND.
21	LP	00	331.9		RUBY-CROWNED KINGLETS
27	RB	00	412.2		FORM:CA,CT. VEG:D15,S. USE:ST,YT.
30	LP	01	446.2	HS	LOG
38	LP	02	513.8		JUVENILE SALMONIDS
39	RB	02	513.8	HS,DJ	
40	RB	00	536.6	/SS	POCKET=2M X 3M X 0.4M
41	LP	00	545.6	HS	LOG
43	PP	00	558	DJ	
44	SL	00	560		FORM:CA,CT. VEG:D15,S. USE:YT,ST.



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