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

STREAM: Hudson Creek Segment A (MS-386)

BASIN: Coquille River

SURVEY TYPE: Pre-Tx

DATE: February 12, 2008

SURVEY CREW: Kyle Brachter, Bobby Gomez

REPORT PREPARED BY: Sharon Tippery

BASIN AREA: 7.9 km²

USGS MAPS: Coos Mountain

ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Hudson Creek habitat survey extended 1,662 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.9 (range: 1-4.5). Land use for the reach was timber harvest and second growth timber (15-30cm dbh). The average unit gradient was 2.4 percent. Scour pools (45%), riffles (29%) and rapids (22%) dominated stream habitat. Gravel (34%), sand (32%) and bedrock (22%) dominated stream substrate. Wood volume was 16.7m³/100m.

COMMENTS:

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

The crew noted several debris jams during the survey.

Beaver activity, cutthroat trout, steelhead redds, and a Pacific treefrog were observed during the survey.

OREGON DEPARTMENT OF FISH AND WILDLIFE HABITAT INVENTORY

HUDSON CREEK SEGMENT A GCG: 3-MS SITE ID: 386

Survey Date: 3	3/12/2008
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Report Date: 5/8/2008 T27S-R11W-S03SE REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valle	y Floor	Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%

Valley Width Index 1.9 VWI Range: 1 - 4.5

Channel Morphology (Percent Reach Length)

Constrained	<u></u>	Unconstrained	
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>	Length (m)	<u> Area (m2)</u>	Dry Units
Primary	1,662	8,213	1
Secondary	81	133	1

Channel Dimensions (m)

Wetted		Activ	<u>e</u>	Floodprone $n = 5$	First Terrace $n = 1$
Width:	4.5	Width:	8.7	11.0 (7.3 - 17.8)	10.1 (10.1 - 10.1)
Depth:	0.39	Height:	0.5	0.9 (0.7 - 1.1)	1.6 (1.6 - 1.6)

W:D ratio: 20.2 Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: MF Habitat Units/100m (total channel length): 6.5

Average Unit Gradient: 2.4% Habitat Units/100m (primary channel length): 6.8

Water temperature (°C): 8.0 - 8.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	Secondar
Land Use:	TH	ST
Riparian Vegetation:	D15	S

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Bank Condition and Shade

Bank StatusPercent Reach LengthShade (% of 180)Actively Eroding:Reach avg:Undercut Banks:Range: -

Large Wood Debris

	<u>Total</u>	Total / 100m primary channel
All pieces (>=3m x 0.15m):	378	22.7
Volume (m ³):	277	16.7
Key pieces (>=12m x 0.60m):	2	0.1

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HABITAT DETAIL									
Habitat Type	Number	Total	Avg	Avg	Total	Large	Substrate		

HABITAT DETAIL													
Habitat Type	Number	Total	Avg	Avg	Total	Large			;	Substra	ate		
	Units	Length	Width	Depth	Area	Boulders			Perc	ent We	etted Ar	ea	
		(m)	(m)	(m)	(m ²)	(#>0.5m)	S/	O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BEDRO	СК	1 7	2.0	0.15	1	4 0		0	0	0	0	0	100
DRY UNIT		1 6	8.6	0.00	5	2 0		0	76	24	0	0	0
POOL-DAMMED		1 14	4.1	0.50	50	6 0		0	95	5	0	0	0
POOL-LATERAL SO	COUR 5	7 787	4.6	0.58	3,70	3 0		2	44	26	3	3	23
POOL-PLUNGE		2 10	5.7	0.60	5	7 0		0	78	15	5	2	0
PUDDLED UNIT		1 16	3 1.4	0.25	2	3 0		20	50	30	0	0	0
RAPID/BEDROCK		8 308	5.7	0.15	1,76	5 0		0	1	3	0	12	85
RAPID/BOULDERS	;	3 20	4.9	0.27	99	9 0		2	19	62	2	9	7
RIFFLE	2	7 537	4.2	0.17	2,43	6 0		0	21	58	16	1	4
STEP/BEAVER DA	M	1 1	3.8	0.05	:	2 0		0	90	10	0	0	0
STEP/BEDROCK		1 5	5.2	0.15	2	3 0		0	0	0	0	0	100
STEP/BOULDERS		4 15	3.7	0.23	5	5 0		0	0	13	25	55	8
STEP/COBBLE		5 14	3.3	0.10	48	3 0		0	6	87	4	2	0
STEP/LOG		1 3	3 4.5	0.07	14	4 0		0	5	5	0	0	90
Total:	11	3 1,743	4.5	0.39	8,34	7 0	Avg:	1	32	34	6	5	22

			HABITAT	SUMMARY				
Habitat Group	Number	Total	Avg	Avg				
	Units	Length	Width	Depth	Wette	d Area	Large B	oulders
		(m)	(m)	(m)	(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	14	4.1	0.50	56	0.67%	0	0.0
Scour Pools	59	797	4.6	0.58	3,760	45.04%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	27	537	4.2	0.17	2,436	29.18%	0	0.0
Rapids	11	329	5.5	0.18	1,864	22.33%	0	0.0
Cascades	1	7	2.0	0.15	14	0.17%	0	0.0
Step/Falls	12	37	3.8	0.14	143	1.71%	0	0.0
Dry	2	22	5.0	0.13	75	0.89%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

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POOL SUMMARY

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	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>						
All Pools:	60	34.4	36.1						
Pools >=1m deep:	3	1.7	1.8						
Complex pools (LWD pieces>=3):	18	10.3	10.8						
Pool frequency (channel widths/pool):	3.3								
Residual pool depth (avg):	0.42								

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 386 STREAM: HUDSON CREEK SEGMENT A

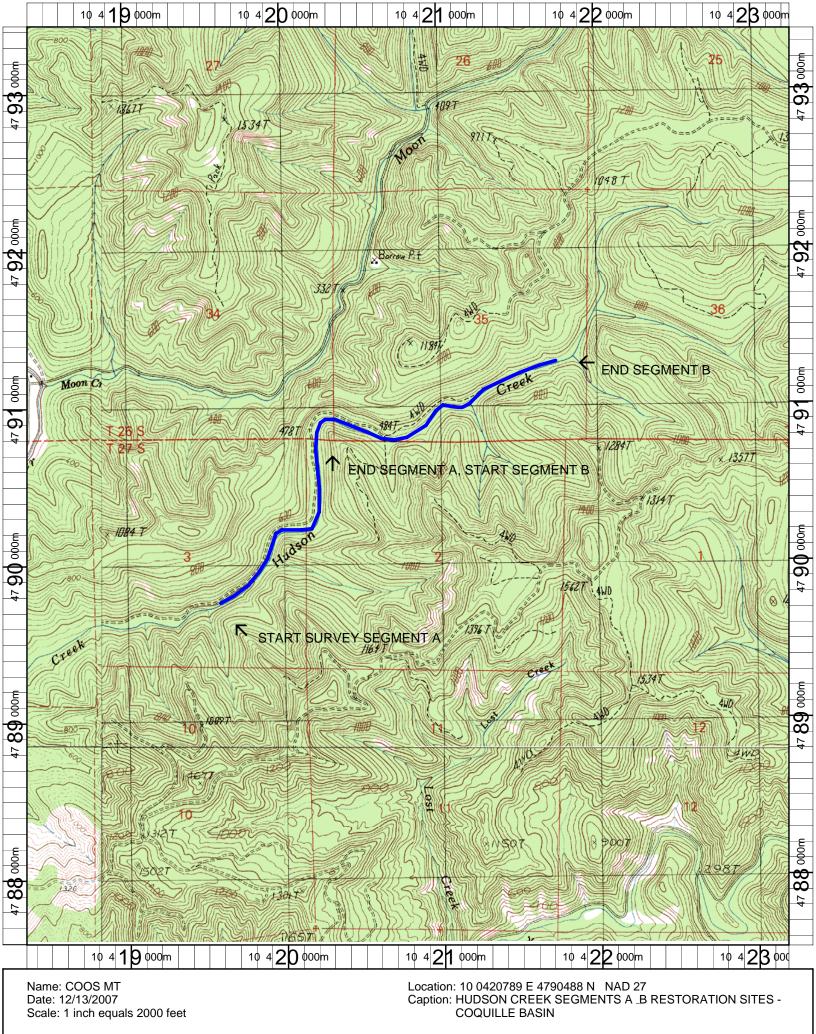
UNIT#	TYPE	CHAN	DIST. (m)	COMMENT	rs notes
1	LP	00	9.5	DJ	CHMV D15S THST
3	LP	00	64.5	DJ	1 CUTTHROAT
4	DU	00	70.5		SUBSURFACE WATER FLOW BENEATH LARGE SAND DEPOSIT
5	SC	00	74.8	DJ	
10	LP	00	132.3	BV	STICKS
15	LP	00	196.7	BV	SMALL DAM
16	SD	00	197.2	BV,BD	
18	RI	00	245.9	/SS	
21	LP	01	271.7	CE/	DIAMETER =0.45M
28	RR	00	401.3	DJ	CACT D30S STYT
35	RR	01	583.6	/TJ	
36	CR	11	583.6		T=8C ACW=2.7M
44	LP	00	723.7	BV	STEELHEAD REDD FLAGGED AT TAILOUT
45	RR	00	773.7		STEELHEAD REDD FLAGGED
46	LP	00	790.2		OLD HABITAT SURVEY SIGN SITE 515 END 9/6/04
48	LP	00	807.8		CUTTHROAT
49	RI	00	851.1	SS/	CHMV D15S THST
59	LP	02	968.6	DJ	
64	SL	01	1020.8	DJ	
75	LP	00	1071.1	DJ	
77	LP	00	1117.1		SURVEY START SIGN SITE 513 8/15/07
78	RI	01	1133.5	/TJ	

OREGON PLAN MONITORING SITE SURVEY DATE:

COMMENT SUMMARY

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENT	S NOTES
86	RI	00	1244.7		CHMV D15S TH
89	LP	00	1290.8	/SS	
92	LP	00	1331.2	DJ	
94	LP	00	1366.2	AM	PACIFIC TREEFROG
97	LP	00	1397.9	CE/	CUTTHROAT REDD
101	LP	00	1506.8	/SS	
112	LP	00	1654.2	DJ	
114	PP	00	1662.2		CHMV M30S THST



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