

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

STREAM: School Line Creek (MS-283)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: February 24, 2005
SURVEY CREW: Jennifer Schmitt, Neil Jensen
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 6.5 km²
USGS MAPS: Dement Creek
ECOREGION: Southern Oregon Coastal Mountains

GENERAL DESCRIPTION:

The School Line Creek habitat survey extended 460 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.6 (range: 1.1-2.3). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 3.4 percent. Scour pools (56%) and rapids (26%) dominated stream habitat. Bedrock (34%), gravel (25%) and sand (20%) dominated stream substrate. Wood volume was moderate at 20.2 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

T30S-R13W-S25NE

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	1.6	VWI Range:	1.1 - 2.3

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 Channel	460	1,722	0
Secondary Channel	0	0	0
Off-Channel Units	8	4	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 2
Width: 3.3	Width: 7.5	10.1 (5.4 - 20)	13.7 (7 - 20.3)
Depth: 0.53	Height: 0.5	1.0 (0.92 - 1)	1.6 (1.55 - 1.7)

W:D ratio: 15.4
 Stream Flow Type: LF
 Average Unit Gradient: 3.4%
 Water temperature (°C): 7.5 - 7.5

Entrenchment (ACW:FPW ratio): 1.3
 Habitat Units/100m (total channel length): 10.3
 Habitat Units/100m (primary channel length): 10.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D30	G

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):	60	13.1
Volume (m ³):	93	20.2
Key pieces (>=12m x 0.60m):	4	0.9

OREGON DEPT OF FISH AND WILDLIFE

SCHOOL LINE CREEK PRE-TX (3-MS, 283)

HABITAT INVENTORY

Report Date: 11/29/2005

Survey Date:

2/24/2005

REACH 1		T30S-R13W-S25NE					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/BEDROCK	3	36	3.6	0.25	136	0	3	10	13	5	9	60
CASCADE/BOULDERS	3	39	1.8	0.22	81	0	5	3	56	17	12	7
POOL-LATERAL SCOUR	10	123	3.6	0.55	446	0	9	46	18	7	5	17
POOL-PLUNGE	9	88	4.5	1.52	433	0	8	23	14	4	3	47
POOL-STRAIGHT SCOUR	3	30	3.1	0.75	95	0	7	48	19	5	2	19
RAPID/BOULDERS	8	109	3.9	0.16	442	0	3	11	37	28	12	8
RIFFLE	2	28	2.3	0.08	64	0	3	3	92	3	0	0
STEP/BEDROCK	7	8	1.6	0.10	13	0	0	0	0	0	0	100
STEP/COBBLE	2	7	2.2	0.15	15	0	2	5	54	25	2	12
STEP/LOG	1	0	2.9	0.05	1	0	0	0	50	0	50	0
Total:	48	468	3.3	0.53	1,726	0	Avg: 5	20	25	10	6	34

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	22	241	3.9	0.97	973	56.42%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	2	28	2.3	0.08	64	3.69%	0	0.0	
Rapids	8	109	3.9	0.16	442	25.60%	0	0.0	
Cascades	6	75	2.7	0.24	218	12.61%	0	0.0	
Step/Falls	10	15	1.8	0.11	29	1.69%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	22	47.1	47.9
Pools >=1m deep:	6	12.8	13.1
Complex pools (LWD pieces>=3):	5	10.7	10.9
Pool frequency (channel widths/pool):	2.8		
Residual pool depth (avg):	0.79		

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **3-MS** SITE ID: **283** SCHOOL LINE CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
4	SP	00	57.5		REDDS	
6	PP	00	93.7	SS/		
7	SR	00	94.1		H = .2	
9	SR	00	102.7		H = .62	
10	LP	00	113.6	SS/		
11	RB	00	123.4	SS/		
12	SP	00	133.6	SS/SS		
13	CB	00	149	SS/SS		
14	PP	00	160.5	SS/SS		
15	SR	00	161.8	SS/SS	H = 1.15	
16	PP	00	168.4	SS/SS		
17	SR	00	169.05	SS/SS	H = .65	
18	PP	00	186.05	SS/SS		
19	CR	00	204.05	SS/SS		
20	PP	00	226.05	SS/SS		
21	SR	00	226.25	SS/SS	H = .45	
22	PP	00	233.45	BC, SS/SS	DEMENT CREEK ROAD	
23	SR	00	234.3	SS/SS	H = .85	
24	PP	00	239.2	SS/SS		
25	SC	00	243.9	SS/SS		
26	PP	00	252.5	SS/SS, LA		

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **3-MS** SITE ID: **283** SCHOOL LINE CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
27	SR	00	253	SS/SS	H = .98	
28	SP	00	263.9	SS/SS		
29	LP	00	273.5	SS/SS	SMALL STEP BETWEEN POOLS	
30	RB	00	286.3	SS/		
31	LP	00	303.4	SS/		
32	RB	00	315.6	SS/		
33	RB	00	327.8	SS/, LS/		
34	LP	00	337.3	HS, DJ	PLACED LOGS	
35	RB	01	346.9	WL, SS/	DEER TRACKS	
37	RI	00	360.7	/LA, /SS		
38	LP	00	366.3	HS, /SS	PLACED WOOD	
39	SC	00	368.7	/SS		
41	SL	00	377.2		H = .4	
42	LP	00	399.2	HS	PLACED WOOD	
43	CR	00	407.8	HS, SS/	PLACED WOOD	
44	RB	00	415.6	/SS		
45	LP	00	422.5	HS, DJ	PLACED WOOD	
46	RI	00	437.1	/SS		
47	LP	00	450.4	HS	PLACED WOOD	
48	CR	00	459.7	SS/SS		

