

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

STREAM: North Fork Big Tom Folley Creek (U-267)
BASIN: Umpqua River
SURVEY TYPE: Post-Tx
DATE: March 23, 2005
SURVEY CREW: Jennifer Schmitt, Neil Jensen
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 13.8 km²
USGS MAPS: Putnam Valley
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The North Fork Big Tom Folley Creek habitat survey extended 3,513 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.9 (range: 1.2-8.2). Land use for the reach was large (30-50 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 2.9 percent. Rapids (49%) and riffles (33%) dominated stream habitat. Bedrock (38%) and gravel (27%) dominated stream substrate. Wood volume was low at 19.0 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.

OREGON DEPT OF FISH AND WILDLIFE NORTH FORK BIG TOM FOLLEY POST-TX (4-UJP, 267)

HABITAT INVENTORY

Report Date: 11/29/2005

Survey Date: 3/23/2005

REACH 1

T21S-R07W-S35SW

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	3.9	VWI Range:	1.2 - 8.2

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 Channel	3,513	19,401	0
Secondary Channel	0	0	0
Off-Channel Units	91	206	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 15	<u>First Terrace</u> n = 13
Width: 5.2	Width: 8.3	11.4 (8.5 - 15.7)	17.0 (10.7 - 50.5)
Depth: 0.35	Height: 0.5	1.0 (0.98 - 1.1)	1.4 (1.08 - 2.7)

W:D ratio: 16.0
 Stream Flow Type: MF
 Average Unit Gradient: 2.9%
 Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.4
 Habitat Units/100m (total channel length): 4.0
 Habitat Units/100m (primary channel length): 4.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	ST
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):	631	18.0
Volume (m ³):	669	19.0
Key pieces (>=12m x 0.60m):	6	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
CASCADE/BEDROCK	3	58	3.9	0.37	219	0	1	5	5	3	16	69
CASCADE/BOULDERS	9	184	3.6	0.27	783	0	8	19	31	11	20	11
GLIDE	3	64	6.3	0.37	410	0	6	22	20	8	13	31
POOL-BACKWATER	10	44	2.6	0.50	160	0	12	24	13	6	3	43
POOL-DAMMED	1	41	7.1	0.80	289	0	10	29	5	0	10	48
POOL-LATERAL SCOUR	14	199	6.1	0.67	1,189	0	9	21	17	4	5	45
POOL-PLUNGE	2	15	5.6	0.78	81	0	7	9	14	2	10	57
POOL-STRAIGHT SCOUR	5	65	6.0	0.72	389	0	14	30	4	7	6	39
PUDDLED UNIT	1	9	0.5	0.01	5	0	3	0	61	20	15	0
RAPID/BEDROCK	24	806	5.4	0.21	4,330	0	2	6	7	2	5	78
RAPID/BOULDERS	24	895	5.9	0.31	5,193	0	4	9	46	21	15	5
RIFFLE	33	973	5.2	0.28	5,114	0	4	11	45	6	5	29
RIFFLE W/ POCKETS	9	219	5.8	0.35	1,278	0	6	22	18	6	9	39
STEP/BEDROCK	4	25	6.0	0.07	130	0	0	0	0	0	3	98
STEP/COBBLE	1	8	4.4	0.10	36	0	10	10	71	5	5	0
Total:	143	3,605	5.2	0.35	19,607	0	Avg: 6	13	27	8	8	38

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	11	85	3.0	0.52	449	2.29%	0	0.0
Scour Pools	21	279	6.0	0.69	1,659	8.46%	0	0.0
Glides	3	64	6.3	0.37	410	2.09%	0	0.0
Riffles	42	1,191	5.3	0.30	6,392	32.60%	0	0.0
Rapids	48	1,701	5.6	0.26	9,524	48.57%	0	0.0
Cascades	12	243	3.7	0.29	1,002	5.11%	0	0.0
Step/Falls	5	33	5.7	0.07	166	0.85%	0	0.0
Dry	1	9	0.5	0.01	5	0.02%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

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POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	32	8.9	9.1
Pools >=1m deep:	1	0.3	0.3
Complex pools (LWD pieces>=3):	9	2.5	2.6
Pool frequency (channel widths/pool):	13.5		
Residual pool depth (avg):	0.45		

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **4-UMP** SITE ID: **267** NORTH FORK BIG TOM FOLLEY PO

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SP	00	8.8	BC	CA-CT, D15, S, LT, ST	
2	RI	00	30.1	BC	BRIDGE ROOF IS A METAL CULVERT	
5	RR	00	113.8	HS	LOGS, FLAGGED SITE 1, SF	
6	RR	00	156.8	HS	LOGS, FLAGGED SITE 2	
7	RP	00	176.4	HS	LOGS, SF	
8	LP	00	186.4	WL	REDDS	
10	RP	01	227.2	HS, SS/	FLAGGED SITE 3, LOGS	
12	RR	00	275.9	WL	RSN	
13	RR	00	297.4	HS	CA-CT, C50,D30,MT,LT,BOULDERS	
14	LP	00	313.5	HS, LS/	LOGS, FLAGGED SITE 4	
15	RR	00	349.8	HS, SS/	LOGS, BOULDERS, FLAG SITE 5	
17	RR	00	395.5	SS/		
18	RI	00	407.2	HS	LOGS, BOULDERS, FLAG SITE 6	
19	LP	00	414.4	HS	LOGS, BOULDERS	
20	RI	00	464.3	HS	LOGS, BOULDERS	
21	RR	01	503.4	HS,/TJ,DJ	LOGS, BOULDERS	
22	BW	10	503.4	HS	LOGS, BOULDERS, SF	
23	CB	11	503.4		ACW = 2.1, H = .2	
24	RI	00	514.6	HS	CT-CT,D15,S,MT,ST LOGS, BLDRS	
25	PP	00	521.1	SS/		
27	RI	01	567.4	WL	REDDS	

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
28	BW	10	567.4		SF	
30	RI	00	595.2	WL	REDDS	
31	RR	00	616.4	HS	LOGS, FLAGGED SITE 9	
32	LP	00	624.6	HS	SF, LOGS	
33	SR	00	630.8	HS	LOGS, BOULDERS	
34	DP	00	671.5	WL, HS	LOGS, BLDRS, REDD, SF, A.STHD	
35	RR	00	695.5	/SS		
36	LP	00	713.5		SF	
37	RR	00	733.3	HS	SF, LOGS	
38	RP	00	755.3	HS WL SS/	SF, LOGS, REDD	
39	RB	00	787.5	HS, WL	CT-CT,D15,S,MT,ST,LOGS,REDDS	
40	GL	00	806.3		SF, U 39 = FLAGGED SITE 11	
41	SP	00	821	WL	SF, REDDS, ADULT STHD	
42	RR	00	860.8	HS	LOGS	
43	RR	00	890.8	HS	LOGS, BOULDERS, ADULT STHD	
44	RB	00	907.3	SS/	SF	
45	GL	00	924.3	SS/, HS	DOWNED TREES	
46	RR	01	961.3	SS/, HS	DOWNED TREES	
47	BW	10	961.3	HS	DOWNED TREES	
48	LP	00	971.8	WL	REDD	
49	CB	00	1007.9	HS	DOWNED TREES	

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
50	LP	00	1018.9	WL, /LI	CH-MV,M15,G,ST,MT, REDDS	
51	RB	00	1039.2	WL	DUCKS	
52	LP	00	1050.3		SF	
54	RB	00	1089	HS	DOWNED TREES	
57	RI	00	1165.4	WL, LI/	REDD, DUCKS	
58	LP	00	1191.9	WL	REDD	
60	RI	00	1255.3	WL	REDD	
61	RP	00	1271	HS	CT-CT,D15,S,LT,MT,LOGS,BLDRS	
62	RI	00	1296.3		SF	
63	RB	00	1328.7		REDD	
64	RR	00	1378.4		SF	
65	RR	00	1439.8	HS, /SS	DOWNED TREES	
66	RI	00	1453.8	/SS	SF	
67	RR	01	1493.9	/TJ, /SS		
68	CB	11	1493.9		ACW = 1.5, H = .14	
69	RI	00	1515	WL	REDD, ADULT STEELHEAD	
70	SR	00	1523	/SS, HS	LOGS	
71	RI	00	1544.8	HS	LOGS, FLAG SITE 13	
72	RI	00	1558.9	HS, /SS	CA-CT,D15,S,ST,LT,LOGS,BLDRS	
75	RP	00	1630.1	HS	LOGS, BLDRS, SF, FLAG SITE 15	
76	RR	00	1661.9	HS, WL	LOGS, BLDRS, REDD	

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
77	RP	00	1684.5	HS, WL	LOGS, BLDRS, SF, FLAS SITE 16	
78	RP	00	1718.5	HS	SF,BLDRS,SENECA JONES SITE 11	
79	RB	00	1741.5	WL, HS	REDDS, SF, BOULDERS	
80	RR	01	1785.7	WL, HS	CA-CT,D15,S,TH,LT,REDD,BLDRS	
81	BW	10	1785.7	HS	BOULDERS	
82	SP	00	1802.6	HS	BOULDERS	
84	BW	10	1827.4		SF	
85	RB	01	1894.4	HS	LOGS, BOULDERS	
86	BW	10	1894.4		SF	
87	RI	00	1911.6	SS/, /SS		
88	RB	00	1961.3	LS/ /SS HS	SF, REDD, BLDRS, LOGS, SITE 8	
89	RR	01	1980.3	TJ/, SS/	FLAG SITE 9	
90	CB	11	1980.3		STEPS INTO A H=.6 CULVERT	
92	SP	00	2002.1		CH-MV,D30,G,LT,ST, SF	
94	RP	00	2072.3	HS, WL	SF, REDD, BOULDERS	
95	RI	01	2092.3	DJ, WL	REDD	
96	BW	10	2092.3	DJ		
97	RI	00	2109.3	WL	NEWT	
98	RI	00	2165.3	HS,/SS,LI/	BOULDERS, REDDS	
99	LP	00	2177.9	HS	BOULDERS	
100	CB	00	2190.6	HS	BOULDERS	

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MONITORING AREA: **4-UMP** SITE ID: **267** NORTH FORK BIG TOM FOLLEY PO

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
102	RB	00	2251.5	/SS	SF	
103	RP	00	2271.6	CE/ HS	SF, BOULDERS	
105	GL	00	2323.3	/SS	CH-MV,D15,G,LT	
106	CR	00	2332.2	DJ		
108	RI	00	2420.6	CE/	SF	
109	CB	00	2479.7	WL	NEWT	
110	SP	00	2493.2	/SS	CT-CT,D15,C1, LT,ST, SF	
111	CR	01	2532.7	/TJ, /SS		
112	CR	11	2532.7		H = .33, ACW = 2.2	
113	RI	00	2582.7	CE/		
114	RI	01	2623.5	WL	REDDS	
115	BW	10	2623.5		SF	
117	RI	00	2723.3	/LA	SCULPIN	
118	RI	00	2778.7	/SS	SF	
119	LP	00	2796.8		CH-MV,D15,S,LT,ST SF	
121	LP	00	2819.7	/SS, WL	REDDS, SF	
123	RB	00	2910.1	SS/, WL	SF, REDD	
125	CB	01	2932.6	TJ/		
126	PD	11	2932.6		H = .2, ACW = 1.7 GOES INTO CC	
128	RB	00	2995.9	SS/		
130	RB	00	3062.7		CT-CT,D15,S,LT,ST	

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139	RB	00	3363.9	HS	CT-CT,D15,S,ST,LT,BLDRS,A.STHD	
140	RI	00	3387.4	BC		
143	RI	00	3513.3		CT-CT, D15, S, LT, ST	

