

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

STREAM: Big Tom Folley Creek Phase 3 (U-245)
BASIN: Umpqua River
SURVEY TYPE: Pre-Tx
DATE: January 28, 2004
SURVEY CREW: Michael Scheu, Jeremiah Bernier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 57.5 km²
USGS MAPS: Putnam Valley
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Big Tom Folley Creek habitat survey extended 1,845 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.7 (range: 1.0-8.0). Land use for the reach was timber harvest and second growth (15-30 cm dbh) trees. The average unit gradient was 1.1 percent. Riffles (48%) and scour pools (42%) dominated stream habitat. Bedrock (51%) dominated stream substrate. Wood volume was low at 8.9 m³/100m.

COMMENTS:

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

REACH 1 T21S-R07W-S36NE 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	3.7	VWI Range:	1 - 8

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	1,845	14,901	0
Secondary	142	293	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 6
Width: 7.2	Width: 11.7	19.6 (14.2 - 31)	24.8 (18.5 - 29.4)
Depth: 0.47	Height: 0.7	1.4 (1.3 - 1.5)	2.0 (1.8 - 2.2)

W:D ratio: 16.8 Entrenchment (ACW:FPW ratio): 1.7
Stream Flow Type: MF Habitat Units/100m (total channel length): 3.9
Average Unit Gradient: 1.1% Habitat Units/100m (primary channel length): 4.2
Water temperature (°C): 10.0 - 10.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	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):	171	9.3
Volume (m ³):	163	8.9
Key pieces (>=12m x 0.60m):	5	0.3

OREGON DEPARTMENT OF FISH AND WILDLIFE BIG TOM FOLLEY PHASE 3 PRE-TX (U-245)
HABITAT INVENTORY Report Date: 6/16/2004 Survey Date: 1/28/2004

REACH 1		T21S-R07W-S36NE					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	15	4.5	0.23	69	0	0	5	43	18	15	20	
DRY UNIT	1	10	2.0	0.00	20	0	0	50	50	0	0	0	
POOL-BACKWATER	4	58	2.4	0.40	122	0	32	32	15	4	0	18	
POOL-LATERAL SCOUR	34	765	8.2	0.71	6,353	0	1	9	11	10	7	61	
RAPID/BEDROCK	4	98	7.9	0.26	764	0	0	0	0	4	4	93	
RAPID/BOULDERS	3	54	4.8	0.27	288	0	0	2	38	51	10	0	
RIFFLE	21	938	7.2	0.29	7,220	0	0	4	20	16	5	55	
STEP/BEDROCK	3	22	6.3	0.25	146	0	0	0	12	15	19	53	
STEP/BOULDERS	2	9	8.0	0.40	72	0	0	0	8	38	50	5	
STEP/COBBLE	3	19	7.0	0.23	141	0	0	2	27	39	17	15	
Total:	77	1,987	7.2	0.47	15,194	0	Avg: 2	8	16	15	8	51	

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	4	58	2.4	0.40	122	0.80%	0	0.0
Scour Pools	34	765	8.2	0.71	6,353	41.81%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	21	938	7.2	0.29	7,220	47.52%	0	0.0
Rapids	7	152	6.5	0.26	1,052	6.92%	0	0.0
Cascades	2	15	4.5	0.23	69	0.45%	0	0.0
Step/Falls	8	50	7.0	0.28	359	2.36%	0	0.0
Dry	1	10	2.0	0.00	20	0.13%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	38	19.1	20.6
Pools >=1m deep:	1	0.5	0.5
Complex pools (LWD pieces>=3):	14	7.0	7.6
Pool frequency (channel widths/pool):	4.5		
Residual pool depth (avg):	0.43		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **245** **BIG TOM FOLLEY CR PHASE 3 PRE-**

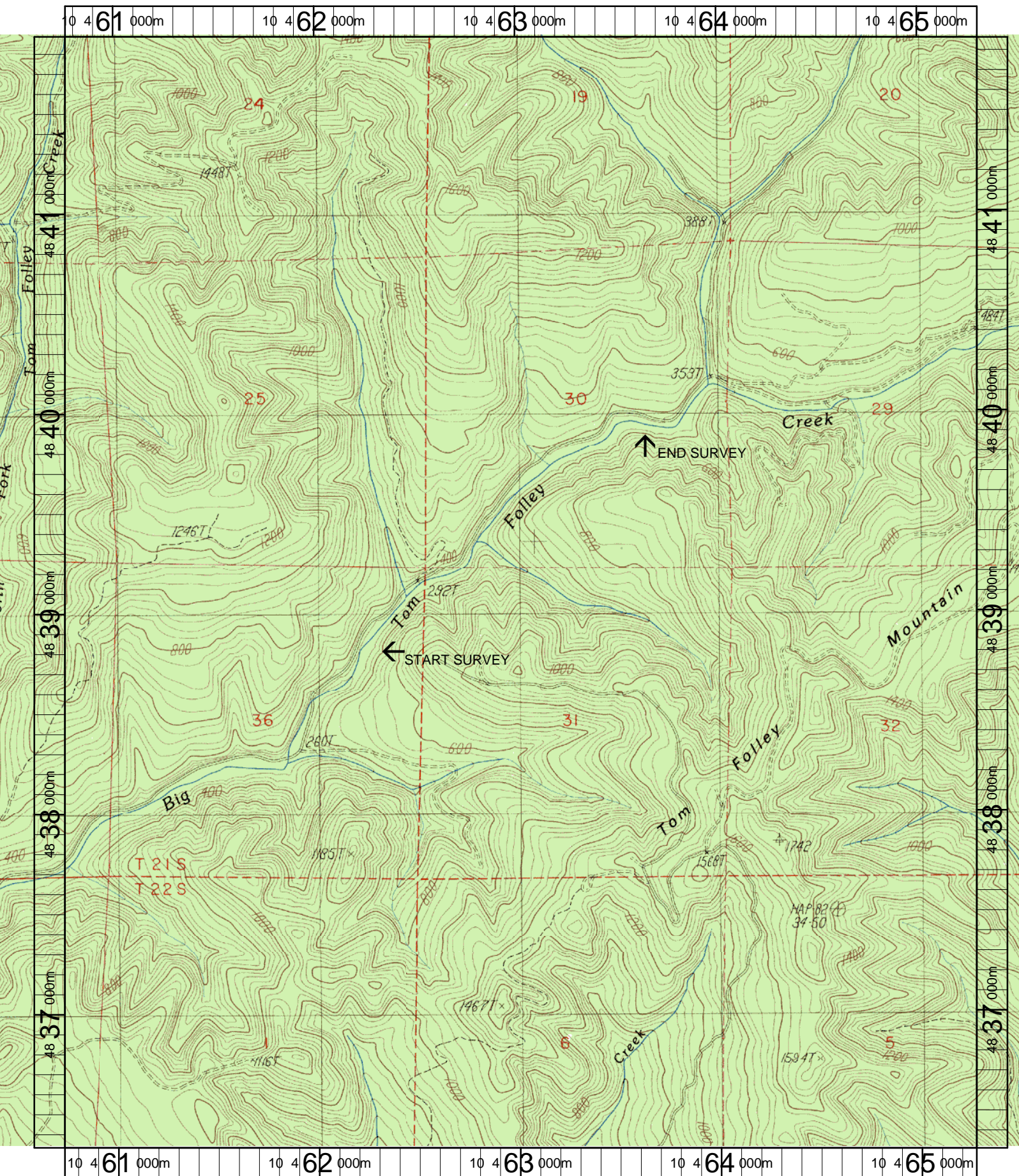
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	10		T=7.5C; 2 STW REDDS	
2	RI	00	26.4		SG=6; SITE #1 39 BLDRS	
5	LP	00	102.2	/SS	SITE #2 50 BLDRS	
6	RI	00	164		SITE #3 32 BLDRS	
7	LP	00	179.5	SS/		
8	RR	00	213.5		SITE #4 48 BLDRS	
9	LP	00	229.5		SG=8; 1 REDD	
10	RI	00	251		SG=10; 2 REDDS; MALE&	
12	RI	00	352		SG=6; SITE #6 70 BLDRS;	
14	RI	01	391	TJ/	SITE#7; PHOTOPT. FOR C	
15	SR	11	391		T=7.5C; ACW=3.5M	
16	LP	00	415	SS/		
20	LP	00	507	/SS		
22	RI	10	514.8		SG=4	
25	RB	00	590		SS/	
31	LP	00	690.6		SG=8; REDD	
34	LP	01	769.6		REDD	
35	RI	01	787.6		REDD	
38	LP	01	822.6	/TJ	BLUE LINE-START 3-10	
39	RB	11	822.6		T=9C; ACW=3.5M	
45	LP	00	956.6		SPAWNING GRAVEL SIG	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 4-UMP SITE ID: 245 BIG TOM FOLLEY CR PHASE 3 PRE-

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
46	LP	00	982.9	SS/		
49	RI	00	1069.1	SS/	SG=15	
62	RI	01	1472.1	TJ/	BLUE LINE	
63	CB	11	1472.1		T=10C; ACW=2M	



<p>Name: PUTNAM VALLEY Date: 1/5/2004 Scale: 1 inch equals 2000 feet</p>	<p>Location: 10 463012 E 4839103 N Caption: BIG TOM FOLLEY CREEK PHASE III RESTORATION SITE - UMPQUA BASIN</p>
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