

**ODFW AQUATIC INVENTORY PROJECT
RESTORATION MONITORING
STREAM HABITAT REPORT**

STREAM: BIG TOM FOLLEY CR PHASE 2
 GCG: 4-UMP
 SITE ID: 184
 BASIN: UMPQUA
 TREATMENT DATE: 2003
 SURVEY DATE: 3/11/2009
 SURVEY CREW: David Jones / Ryan Emig
 USGS MAPS: ELKTON, PUTNAM VALLEY
 ECOREGION: Mid-Coastal Sedimentary
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

REACH: 1 LOCATION: T22S-R07W-S02NW

SURVEY DESCRIPTION:

Channel morphology: Constrained by high terraces
 Dominant landuse(s): Young forest trees (3-15 cm dbh)
 Dominant riparian vegetation: Deciduous trees: size class 30-50cm dbh
 Primary channel length (meters) and area (m²): 617 : 6,583
 Secondary channel length (meters) and area (m²) 68 : 274
 VWI average: 5.7 VWI Range: 4 - 9 Average Gradient: 1.9%
 Pieces LWD per 100m: 8.9 Wood Volume (m³) per 100m: 8.0
 Percent pools: 26% Complex pools (LWD pieces>=3): 2 Pools >=1m deep:3
 Percent substrate (avg):

	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	0	12	19	20	15	35
Pool units	1	17	15	18	13	37
Fast water units	0	7	21	22	15	33

SURVEY COMMENTS:

The Big Tom Folley Creek Phase 2 habitat survey is a post-treatment, long term monitoring site. The crew noted habitat structures throughout. There were no potential barriers to upstream fish migration observed within the survey reach. A previous post-treatment habitat survey was conducted during the winter of 2004. Comparisons were made among key coho salmon habitat attributes: total secondary channel length, pieces of LWD per 100 m, wood volume per 100 m, percent pools, and complex pools. All key attributes decreased slightly except secondary channel length, which showed a slight increase.

Survey Date: 3/11/2009

Report Date: 2/16/2010

T22S-R07W-S02NW

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	5.7	VWI Range:	4 - 9

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	617	6,583	0
Secondary	68	274	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 8.9	Width: 11.6	15.2 (10 - 17.5)	19.0 (12 - 23)
Depth: 0.57	Height: 0.5	1.0 (0.9 - 1.3)	2.3 (1.6 - 3.3)

W:D ratio: 23.0

Stream Flow Type: MF

Average Unit Gradient: 1.9%

Water temperature (°C): 6.0 - 6.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 4.1

Habitat Units/100m (primary channel length): 4.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	LT
Riparian Vegetation:	D30	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):	55	8.9
Volume (m ³):	49	8.0
Key pieces (>=12m x 0.60m):	3	0.5

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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
CULVERT CROSSING	1	19	2.7	0.60	51	0	0	9	14	9	5	64
POOL-BACKWATER	1	11	4.0	0.50	44	0	0	81	5	5	5	5
POOL-LATERAL SCOUR	6	146	10.3	0.99	1,703	0	1	18	14	19	12	37
POOL-PLUNGE	1	9	7.0	0.90	63	0	0	10	20	15	15	40
RAPID/BEDROCK	2	28	6.5	0.25	167	0	0	5	12	17	10	56
RAPID/BOULDERS	5	163	8.6	0.43	1,477	0	0	7	32	31	17	13
RIFFLE	4	180	11.4	0.48	2,083	0	0	9	12	12	11	56
RIFFLE W/ POCKETS	5	114	9.7	0.47	1,152	0	0	7	22	24	20	27
STEP/BEDROCK	1	5	6.5	0.25	33	0	0	5	5	5	14	73
STEP/BOULDERS	1	3	6.0	0.40	15	0	0	5	35	20	40	0
STEP/COBBLE	1	7	10.0	0.40	70	0	0	5	15	35	10	35
Total:	28	684	8.9	0.57	6,856	0	Avg: 0	12	19	20	15	35

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	1	11	4.0	0.50	44	0.64%	0	0.0
Scour Pools	7	155	9.9	0.98	1,766	25.76%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	9	294	10.4	0.47	3,234	47.17%	0	0.0
Rapids	7	191	8.0	0.38	1,644	23.97%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	3	15	7.5	0.35	118	1.71%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	19	2.7	0.60	51	0.75%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

BIG TOM FOLLEY CR PHASE 2
GCG: 4-UWP SITE ID: 184

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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:	8	11.7	13.0
Pools >=1m deep:	3	4.4	4.9
Complex pools (LWD pieces>=3):	2	2.9	3.2
Pool frequency (channel widths/pool):	7.4		
Residual pool depth (avg):	0.51		

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 3/11/2009

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 184 STREAM: BIG TOM FOLLEY CR PHASE 2

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	4	LP	01	163	TJ/	
1	5	RR	11	163		ACW=4M, T=6C, SADDLE BUTTE CREEK
1	6	RI	01	196	HS,DJ	
1	7	BW	10	196	/SS	
1	9	RI	00	253	HS	
1	13	RI	00	387	/SS	
1	14	LP	00	412	DJ	
1	18	PP	01	478	TJ/	SGS
1	19	LP	11	478	CS	SGS 22712.0 NF BIG TOM FOLLEY
1	20	CC	11	478	CC	
1	21	RB	11	478	CS	ACW=8M, T=7C
1	23	RP	00	499	CS/	
1	24	LP	00	508	CS/	
1	25	RB	00	535	CS/	ACTIVE EROSION
1	26	SB	00	537.5	CS/	
1	27	RP	00	558.5	CS/	
1	28	RB	00	616.5	CS/	CAN'T FIND END SIGN, ENDED 129M ABOVE TJ

Big Tom Folley Creek Phase 2 (UMP-184) 2009 Winter Habitat Survey Photographs



Unit 1 - Upstream view of the start of the survey.



View of confluence with Saddle Creek.



Bedrock cave just upstream from the confluence with Saddle Creek.



Upstream view of confluence with North Fork Big Tom Folley Creek.
North Fork Big Tom Folley Creek culvert in background.

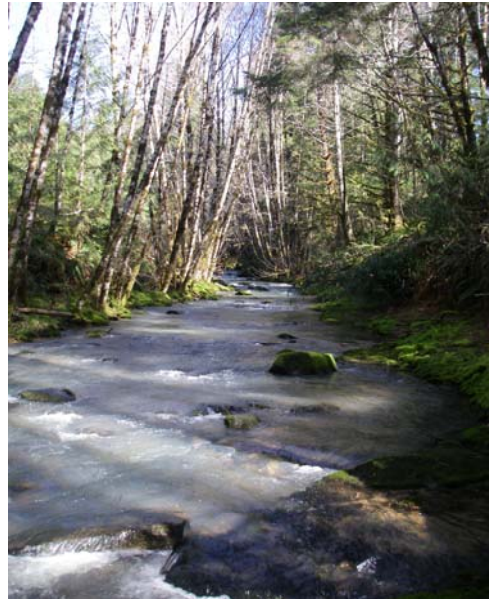


Confluence with North Fork Big Tom Folley Creek.

Big Tom Folley Creek Phase 2 (UMP-184) 2009 Winter Habitat Survey Photographs



Upstream view of the end of the survey and constraining terraces.



Upstream view of rapid upstream of NF confluence.