

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

STREAM: Lampa Creek Tributary (MS-326)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: July 10, 2006
SURVEY CREW: Lisa Biggs, Peter Cole
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 6.1 km²
USGS MAPS: Bill Peak
ECOREGION: Coast Range Coastal Lowlands

GENERAL DESCRIPTION:

The Lampa Creek Tributary habitat survey extended 644 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 40.0 (range: 20.0-60.0). Land use for the reach was light grazing and young (3-15 cm dbh) trees. The average unit gradient was 1.1 percent. Riffles (59%) and scour pools (21%) dominated stream habitat. Silt (86%) dominated stream substrate. Wood volume was very low at 1.0 m³/100m.

COMMENTS:

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

REACH 1

T28S-R13W-S32NW

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	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	100%
Valley Width Index	40.0	VWI Range:	20 - 60

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
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	644	632	0
Secondary Channel	0	0	0
Off-Channel Units	75	48	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 2
Width: 1.0	Width: 2.2	33.6 (1.1 - 90)	90.0 (70 - 110)
Depth: 0.19	Height: 0.5	1.0 (0.8 - 1.2)	1.1 (1 - 1.2)

W:D ratio: 4.7
 Stream Flow Type: LF
 Average Unit Gradient: 1.1%
 Water temperature (°C): 14.5 - 14.5

Entrenchment (ACW:FPW ratio): 12.8
 Habitat Units/100m (total channel length): 5.7
 Habitat Units/100m (primary channel length): 6.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	YT
Riparian Vegetation:	G	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	1%	Reach avg: 63%
Undercut Banks:	13%	Range: 7 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	17	2.6
Volume (m ³):	6	1.0
Key pieces (>=12m x 0.60m):	0	0.0

HABITAT INVENTORY

Report Date: 3/5/2007

Survey Date:

7/10/2006

REACH 1		T28S-R13W-S32NW					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
CULVERT CROSSING	2	8	0.6	0.04	5	0	90	8	3	0	0	0
GLIDE	2	61	1.8	0.13	104	0	100	0	0	0	0	0
POOL-DAMMED	2	19	1.3	0.45	24	0	80	20	0	0	0	0
POOL-LATERAL SCOUR	11	118	1.3	0.39	139	0	91	7	2	0	0	0
POOL-PLUNGE	1	4	1.5	0.40	5	0	76	19	5	0	0	0
RIFFLE	19	508	0.8	0.09	403	0	82	16	2	0	0	0
STEP/BEAVER DAM	1	1	0.1	0.05	0	0	100	0	0	0	0	0
STEP/STRUCTURE	3	1	0.4	0.04	0	0	77	13	10	0	0	0
Total:	41	719	1.0	0.19	680	0	Avg: 86	12	2	0	0	0

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	2	19	1.3	0.45	24	3.52%	0	0.0	
Scour Pools	12	121	1.4	0.39	144	21.14%	0	0.0	
Glides	2	61	1.8	0.13	104	15.30%	0	0.0	
Riffles	19	508	0.8	0.09	403	59.30%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	4	2	0.3	0.04	0	0.04%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	2	8	0.6	0.04	5	0.69%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	14	19.5	21.7
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	23.3		
Residual pool depth (avg):	0.35		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

LAMPA CREEK TRIBUTARY PRE-TX
GCG: 3-MS SITE ID: 326

Survey Date 7/10/2006
Report Date: 3/5/2007

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) 3 transects

Total hardwoods/1000	61
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
15-30cm	0.0	0.3	0.7	0.0	1.0	0.0	1.7	0.3
30-50cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	0.3	0.7	0.7	1.0	0.0	0.6	0.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	6		13		13	
Shrub cover	22		12		7	
Grass/forb cover	75		83		78	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		17		17	
High terrace	0		0		0	
Low terrace	100		83		83	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	1		5		7	

Summary of Riparian Zone (0-30m) for all reaches**3 transects****Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	61
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	0.3
15-30cm	1.7	0.3
30-50cm	0.0	0.3
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
22	RT	2	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
22	RT	3	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
22	RT	1	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
22	LF	3	LT	0	0	30	70	Conifer							NO TREES
								Hardwood							
22	LF	2	LT	0	0	50	50	Conifer							OLD APPLE TREE
								Hardwood			1				
22	LF	1	LT	0	0	60	40	Conifer							BLACKBERRIES, NO TREES
								Hardwood							
34	LF	2	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
34	RT	3	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
34	RT	2	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
34	RT	1	LT	0	0	10	90	Conifer							NO TREES
								Hardwood							
34	LF	1	LT	0	5	15	85	Conifer							
								Hardwood			1				
34	LF	3	LT	0	0	10	90	Conifer							NO TREES
								Hardwood							
41	RT	3	LT	0	0	0	100	Conifer							NO TREES
								Hardwood							
41	RT	2	LT	0	0	0	100	Conifer							ALDER
								Hardwood			1				
41	RT	1	LT	0	0	5	95	Conifer							NO TREES
								Hardwood							
41	LF	3	HS	40	80	0	10	Conifer				3			GRAND FIR
								Hardwood							
41	LF	2	HS	30	80	20	50	Conifer				2			
								Hardwood							
41	LF	1	LT	5	30	40	40	Conifer							NO TREES
								Hardwood							

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 3-MS SITE ID: 326 LAMPA CREEK TRIBUTARY PRE-TX

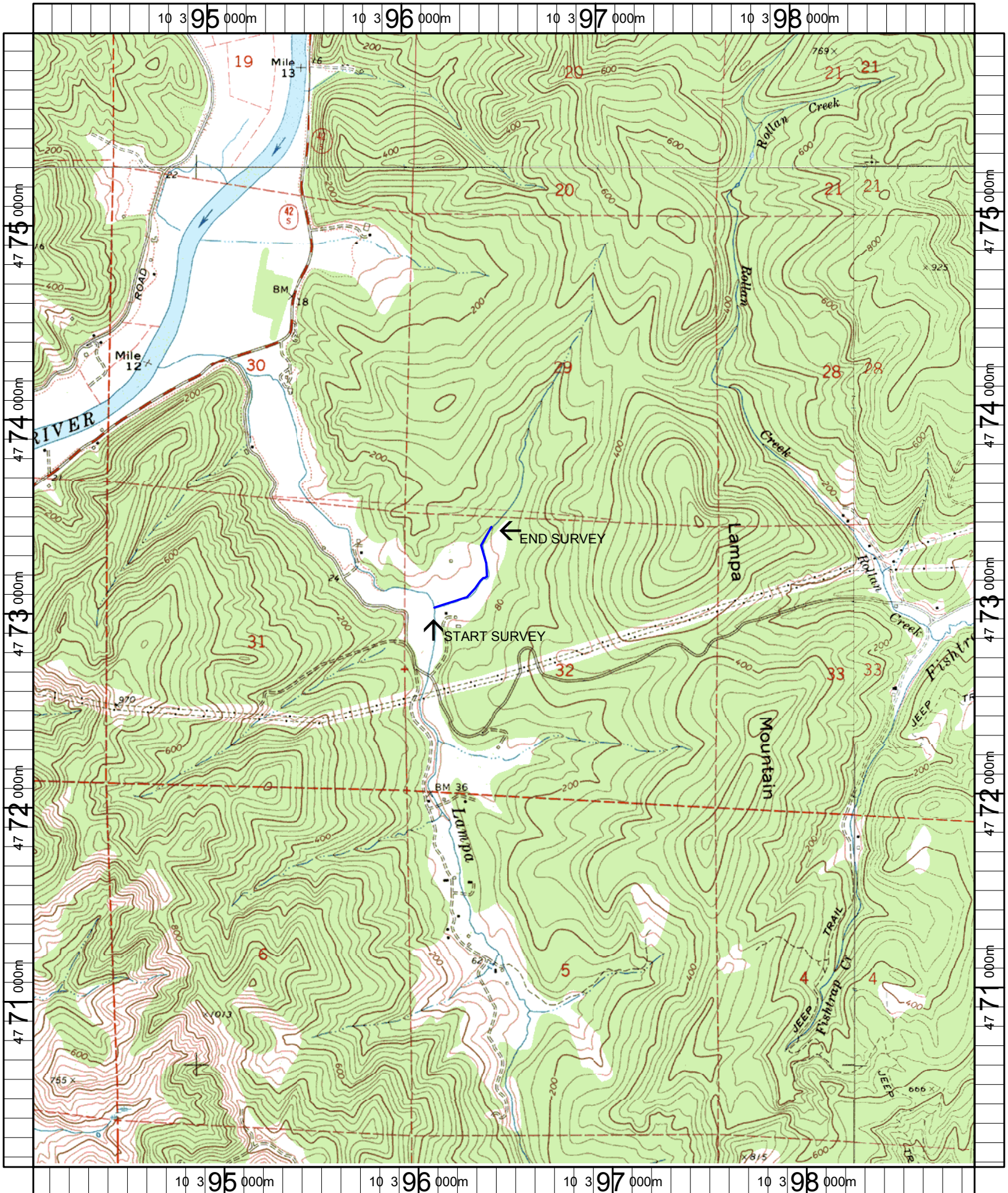
<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RI	00	38.4	WL	T=14.5C @900AM, DENSE WI	1 ADULT RLF
2	SS	00	38.6		CONCRETE & METAL	STEP IS METAL & CONCR
4	RI	00	70.3		SHADE=BRUSH, NO TREES	
5	PP	00	73.8	BC	US/WF,G/S,LG	FOOT BRIDGE
6	SS	00	73.9		SHADE=WOOD BOARDS, NO	
7	CC	00	77.7	BC, CC		1M X 1M, METAL STEP=.4
10	LP	01	122.5	/TJ	/TJ (DITCH)	
11	LP	11	122.5		TRIB A, CANARY GRASS	
12	RI	00	128.5		SKUNK CABBAGE	
22	RI	00	275.7		US/WF,G/S,LG/YT	
23	LP	00	281.7		SHADE=BLACKBERRIES	
27	SD	00	322.6	BD	H=0.30M, BEAVER DAM	OLD BEAVER DAM
28	RI	01	372.6	/TJ	/TJ, FROG-SPECIES UNKNO	
29	RI	11	372.6		TRIB B AFTER 25M IS BRAID	TRIB BECOMES COMPLEX
30	RI	00	411.4	WL		TREE FROG
31	LP	00	417.4	WL		RSN
32	RI	00	467.4	SS	SHADE=BLACKBERRIES	
35	CC	00	514.9	CC		STEP=0.5M,H=0.5M,W=0.5
36	RI	00	535.4		2 HORSES, 1 PONY	CC IS COVERED WITH BL
38	RI	00	583.3		DEAD COW	
39	GL	01	617.6	TJ/	TJ/, BECOMING VERY MARS	STEP=0.50M

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 3-MS SITE ID: 326 LAMPA CREEK TRIBUTARY PRE-TX

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
40	RI	11	617.6		TRIB C	MARSH
41	GL	00	643.9			MARSH



Name: BILL PEAK
 Date: 1/19/2006
 Scale: 1 inch equals 2000 feet

Location: 10 396483 E 4773033 N
 Caption: LAMPA CREEK TRIBUTARY RESTORATION SITE - COQUILLE BASIN