

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

STREAM: Steampot Creek (N-237)
BASIN: Trask River
SURVEY TYPE: Pre-Tx
DATE: March 16, 2004
SURVEY CREW: Michael Scheu, Carmen Vandyke
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 6.2 km²
USGS MAPS: Dovre Peak
ECOREGION: Coast Range Volcanic

GENERAL DESCRIPTION:

The Steampot Creek habitat survey extended 601 meters. The channel was constrained by hillslopes in a moderate V-shape valley. The average valley width index was 1.9 (range: 1.0-3.2). Land use for the reach was large (30-50 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 3.0 percent. Rapids (28%), scour pools (27%) and cascades (24%) dominated stream habitat. Gravel (35%) and cobble (29%) dominated stream substrate. Wood volume was very high at 40.7 m³/100m.

COMMENTS:

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

REACH 1

T02S-R07W-S28NW

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	1.9	VWI Range:	1 - 3.2

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	601	2,628	0
Secondary	167	374	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 3
Width: 4.1	Width: 7.9	10.8 (8.5 - 18.3)	10.3 (10 - 11)
Depth: 0.37	Height: 0.5	1.0 (0.8 - 1.2)	1.4 (1.2 - 1.6)

W:D ratio: 17.5
Stream Flow Type: MF
Avg. Unit Gradient: 3.0%

Entrenchment (ACW:FPW ratio): 1.4
Water temp (°C): 9.0 - 9.0
Habitat Units/100m: 6.9

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</u>
All pieces (>=3m x 0.15m):	186	30.9
Volume (m ³):	245	40.7
Key pieces (>=10m x 0.60m):	17	2.8

OREGON DEPARTMENT OF FISH AND WILDLIFE

STEAMPOT CREEK PRE-TX (N-237)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/16/2004

REACH 1		T02S-R07W-S28NW					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	42	3.5	0.23	147	0	0	3	13	6	2	76	
CASCADE/BOULDERS	9	181	3.7	0.23	574	0	0	8	23	49	12	8	
DRY UNIT	1	8	5.5	0.00	45	0	0	10	70	20	0	0	
POOL-DAMMED	1	2	8.0	0.40	16	0	10	30	60	0	0	0	
POOL-LATERAL SCOUR	8	118	4.6	0.66	558	0	4	18	35	33	7	3	
POOL-PLUNGE	6	46	5.2	0.79	203	0	0	21	39	18	6	16	
POOL-STRAIGHT SCOUR	2	12	3.8	0.75	44	0	0	18	13	48	23	0	
PUDDLED UNIT	1	15	0.8	0.15	12	0	14	24	38	19	0	5	
RAPID/BOULDERS	6	181	4.2	0.26	831	0	2	10	24	45	9	10	
RIFFLE	6	138	3.4	0.29	467	0	0	19	63	15	2	0	
STEP/BEDROCK	2	2	3.4	0.25	6	0	0	0	0	0	0	100	
STEP/BOULDERS	2	7	4.3	0.18	37	0	0	2	7	66	24	0	
STEP/COBBLE	1	5	5.0	0.15	25	0	0	5	53	42	0	0	
STEP/LOG	5	10	3.6	0.14	36	0	1	28	62	9	0	1	
Total:	53	768	4.1	0.37	3,002	0	Avg: 1	15	35	29	7	13	

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	2	8.0	0.40	16	0.53%	0	0.0
Scour Pools	16	176	4.7	0.72	805	26.83%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	6	138	3.4	0.29	467	15.55%	0	0.0
Rapids	6	181	4.2	0.26	831	27.70%	0	0.0
Cascades	12	223	3.7	0.23	721	24.03%	0	0.0
Step/Falls	10	24	3.8	0.17	103	3.45%	0	0.0
Dry	2	24	3.2	0.08	57	1.91%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY			
	<u>Total</u>	<u># / Km</u>	
All Pools:	17	22.1	167
Pools >=1m deep:	2	2.6	
Complex pools (LWD pieces>=3):	5	6.5	
Pool frequency (channel widths/pool):	5.7		
Residual pool depth (avg):	0.48		

STREAM SUMMARY

STEAMPOT CREEK PRE-TX (N-237)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (#>0.5m)
					S/O	Percent Wetted Area					
					Snd	Grvl	Cbl	Bldr	Bdrk		
53	768	4.1	0.37	3,002	1	15	35	29	7	13	

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	16	0.53%
Scour Pools	805	26.83%
Glides	0	0.00%
Riffles	467	15.55%
Rapids	831	27.70%
Cascades	721	24.03%
Step/Falls	103	3.45%
Dry	57	1.91%
Culverts	0	0.00%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 237 STEAMPOT CREEK PRE-TX (N-237)

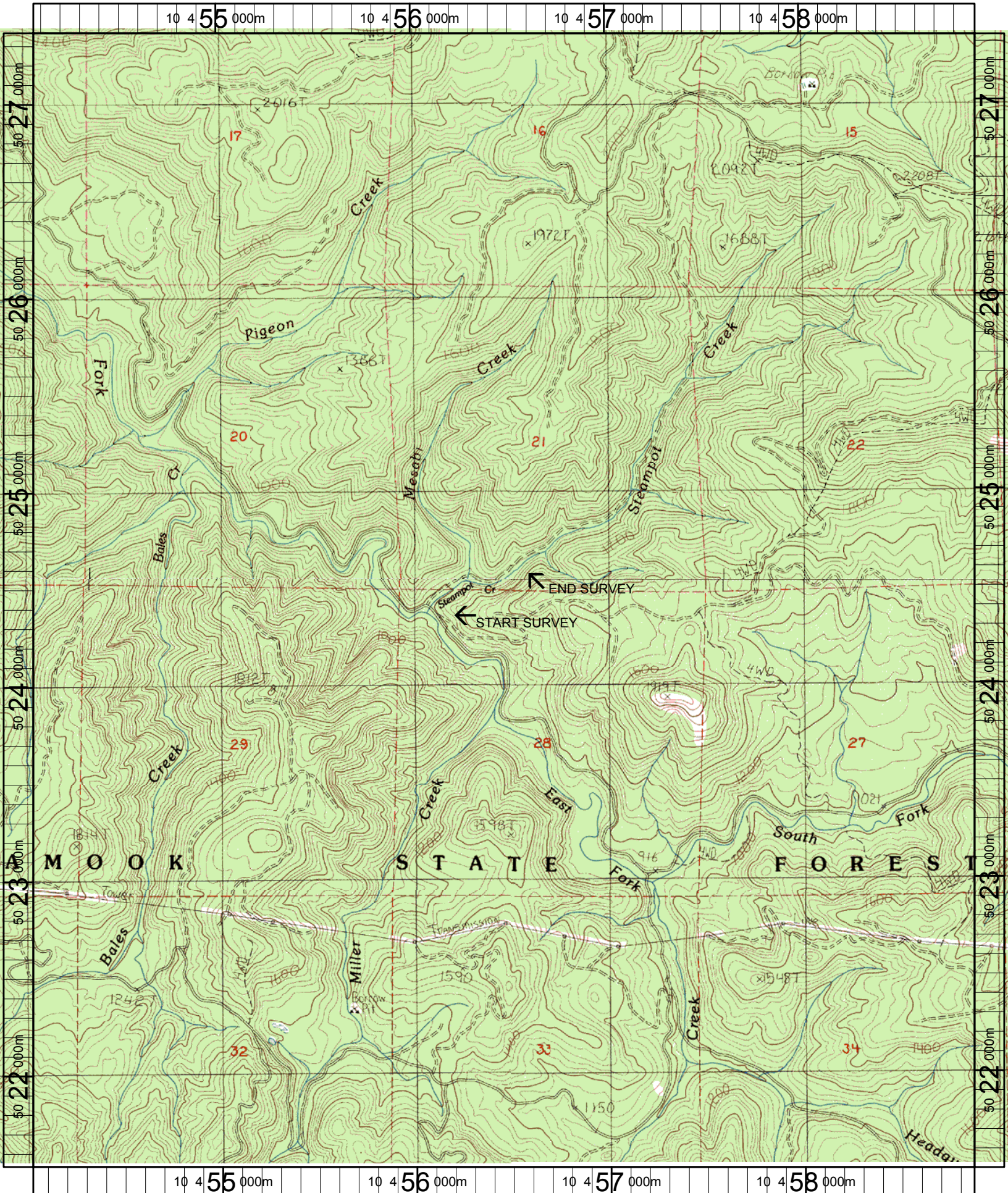
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
2	RI	00	30.2	CS/CS, BC	E. FK TRASK RD	
3	LP	00	50.3	RF		
4	CR	00	61.9	SS/		
10	RB	00	157.8	SS/		
12	SR	00	171.9		H=.4M	
14	SR	00	180.7		H=.5M	
16	RB	00	199.7		SITE 1, ORANGE FLAG	
17	LP	00	215		FLG 3-16-04 STW REDD	
19	LP	01	244.1		FISH, HAB SITE 2, FLG	
20	CB	02	244.1	TJ/		
21	SL	11	244.1		H=.6M, MESABI CR	
22	RI	11	244.1		T=8C, ACW=2.5M	
23	SB	03	244.1		H=.8M	
24	CB	00	262.4		CABLE IN CR	
27	RI	00	301.6	/LS		
30	SL	00	318.4		H=1.2M	
31	RI	00	340.9		STH REDD SG=15M	
32	LP	00	364.4		SG=15M, HAB SITE 4, RE	
33	RB	00	386.6		FISH HAB SITE, BLDRS	
34	PP	00	390.7	PN	REDD, FLAG, SG=15M	
37	SL	01	417.1		H=.8M	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 237 STEAMPOT CREEK PRE-TX (N-237)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
39	SL	02	417.1		H=.7M	
40	DP	00	419.1		COW PRINTS	
44	RB	02	482.7	/SS		
45	LP	02	482.7		FISH BONES	
46	CB	02	482.7		TROUT	
48	LP	00	499.8		HAB SITES	



Name: DOVRE PEAK
 Date: 6/14/2004
 Scale: 1 inch equals 2000 feet

Location: 10 456461 E 5024435 N
 Caption: STEAMPOT CREEK RESTORATION SITE - TRASK BASIN