

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

STREAM: Steampot Creek (N-238)  
BASIN: Trask River  
SURVEY TYPE: Reference  
DATE: March 16, 2003  
SURVEY CREW: Michael Scheu, Carmen Vandyke  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 6.2 km<sup>2</sup>  
USGS MAPS: Trask  
ECOREGION: Coast Range Volcanic

**GENERAL DESCRIPTION:**

The Steampot Creek habitat survey extended 441 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.2 (range: 1.4-3.0). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 3.3 percent. Rapids (34%) and scour pools (25%) dominated stream habitat. Gravel (34%) and cobble (30%) dominated stream substrate. Wood volume was very high at 45.3 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T02S-R07W-S21SW

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	2.2	VWI Range:	1.4 - 3

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	441	1,926	0
Secondary	114	151	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 0
Width: 4.0	Width: 7.5	15.6 ( 9.6 - 19.8 )	( - )
Depth: 0.39	Height: 0.5	1.1 ( 1 - 1.2 )	( - )

W:D ratio: 14.2  
Stream Flow Type: MF  
Avg. Unit Gradient: 3.3%

Entrenchment (ACW:FPW ratio): 2.1  
Water temp (°C): 9.0 - 9.0  
Habitat Units/100m: 7.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
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):	136	30.8
Volume (m <sup>3</sup> ):	200	45.3
Key pieces (>=10m x 0.60m):	11	2.5

OREGON DEPARTMENT OF FISH AND WILDLIFE

STEAMPOT CREEK REFERENCE (N-238)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/16/2004

REACH 1

T02S-R07W-S21SW

REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	4	79	2.3	0.15	183	0	4	18	33	39	1	6
POOL-DAMMED	1	8	2.7	0.45	21	0	0	16	63	21	0	0
POOL-ISOLATED	1	3	1.5	0.40	4	0	38	38	19	5	0	0
POOL-LATERAL SCOUR	4	51	4.7	0.71	238	0	11	18	29	39	0	3
POOL-PLUNGE	7	50	5.4	0.96	273	0	2	23	37	21	5	11
PUDDLED UNIT	2	67	1.7	0.30	92	0	45	13	18	24	0	0
RAPID/BOULDERS	5	164	4.2	0.21	706	0	0	8	35	52	3	2
RIFFLE	3	88	3.9	0.30	349	0	0	21	31	45	2	2
STEP/BEDROCK	4	18	2.6	0.10	52	0	0	0	3	0	0	98
STEP/COBBLE	3	20	5.4	0.17	106	0	0	3	36	61	0	0
STEP/LOG	5	10	4.8	0.15	55	0	0	18	65	16	0	1
<b>Total:</b>	<b>39</b>	<b>556</b>	<b>4.0</b>	<b>0.39</b>	<b>2,077</b>	<b>0</b>	<b>Avg: 5</b>	<b>15</b>	<b>34</b>	<b>30</b>	<b>2</b>	<b>13</b>

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	2	11	2.1	0.43	25	1.22%	0	0.0
Scour Pools	11	100	5.2	0.87	510	24.56%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	3	88	3.9	0.30	349	16.79%	0	0.0
Rapids	5	164	4.2	0.21	706	33.96%	0	0.0
Cascades	4	79	2.3	0.15	183	8.79%	0	0.0
Step/Falls	12	47	4.2	0.14	213	10.24%	0	0.0
Dry	2	67	1.7	0.30	92	4.45%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km	
All Pools:	13	23.4	114
Pools >=1m deep:	4	7.2	
Complex pools (LWD pieces>=3):	5	9.0	
Pool frequency (channel widths/pool):	5.7		
Residual pool depth (avg):	0.64		

**STREAM SUMMARY**

**STEAMPOT CREEK REFERENCE (N-238)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
39	556	4.0	0.39	2,077	5	15	34	30	2	13	

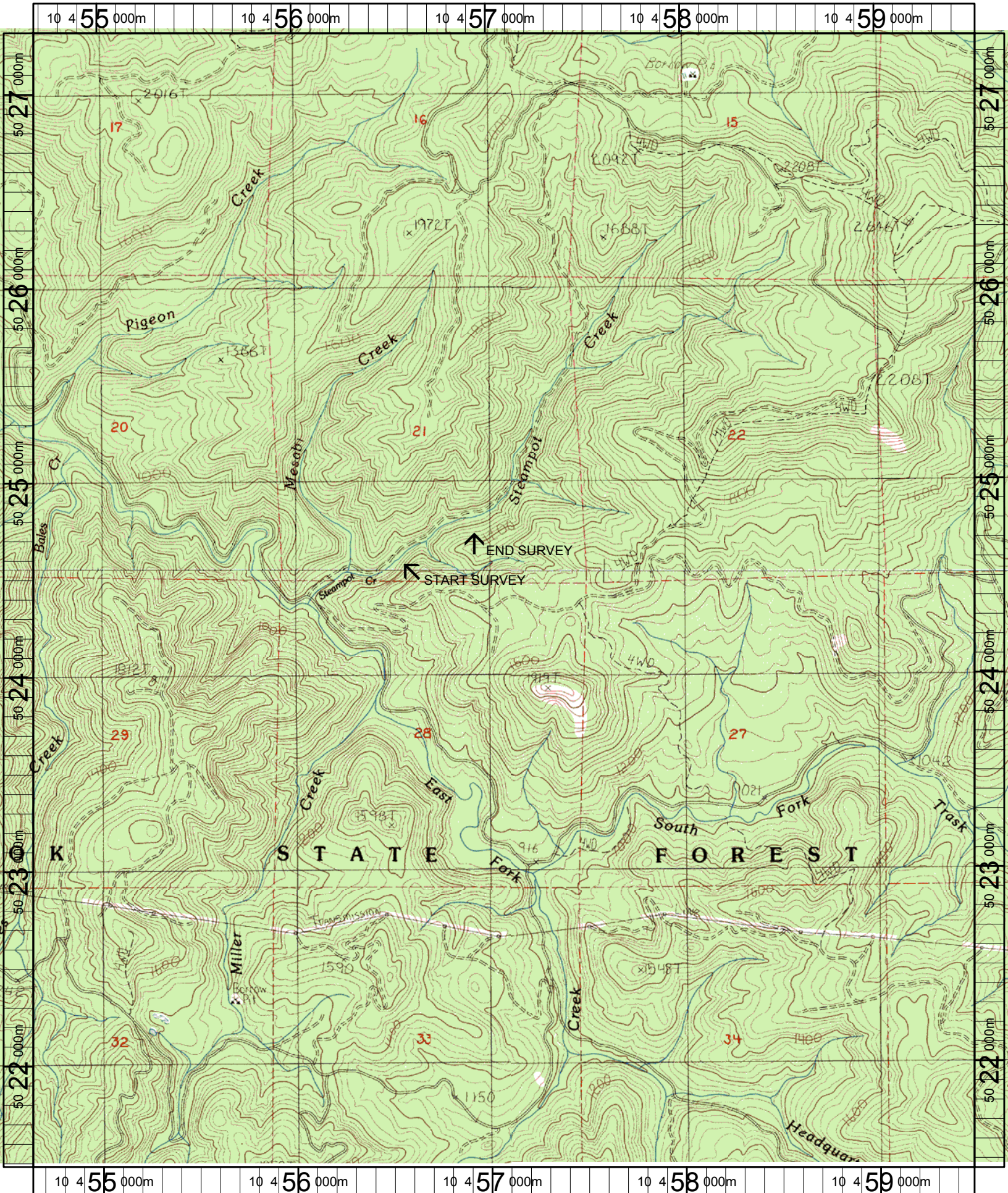
Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	25	1.22%
Scour Pools	510	24.56%
Glides	0	0.00%
Riffles	349	16.79%
Rapids	706	33.96%
Cascades	183	8.79%
Step/Falls	213	10.24%
Dry	92	4.45%
Culverts	0	0.00%

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **1-NC**      SITE ID: **238**      STEAMPOT CREEK REFERENCE (N-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
3	PP	00	66.9			CULVERT IN CR
8	CB	01	116.63	/LI		
9	PD	02	116.63			TROUT
11	SR	00	127.43			H=1.7M
12	RI	00	146.33	/SS,BV		
13	PP	01	154.33	/TJ		
14	SR	11	154.33			ACW=2.1M, T=8C, H=1.2M
16	LP	00	183.33			REDD
17	SL	00	184.53			H=.5M
19	RB	01	255.73	/LI		
20	SL	01	261.63			H=1.2M
22	PD	02	269.43			CUTS THRU RD
23	SC	01	276.63			CABLE IN CR
26	SL	00	284.53			H=.4M
30	SL	00	302.53			H=.6M
33	RB	01	347.03	TJ/		
34	CB	11	347.03			ACW=1.2M, T=9C



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

Location: 10 457074 E 5024384 N  
 Caption: STEAMPOT CREEK REFERENCE SITE - TRASK BASIN