

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

STREAM: Steampot Creek (N-237)
BASIN: Trask River
SURVEY TYPE: Post-Tx
DATE: February 14, 2006
SURVEY CREW: Brain Cannon, Jon Nott
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 6.2 km³
USGS MAPS: Dovre Peak, Trask
ECOREGION: Coast Range Volcanic

GENERAL DESCRIPTION:

The Steampot Creek habitat survey extended 617 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.0 (range: 1.2-3.5). Land use for the reach was large (30-50 cm dbh) trees. The average unit gradient was 2.4 percent. Riffles (39%) and scour pools (27%) dominated stream habitat. Gravel (38%) and sand (20%) dominated stream substrate. Wood volume was very high at 53.6 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

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	2.0	VWI Range:	1.2 - 3.5

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 Channel	617	2,563	0
Secondary Channel	164	266	4
Off-Channel Units	49	117	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<i>n = 6</i>	<u>First Terrace</u>	<i>n = 0</i>
Width: 3.8	Width: 7.3	14.7	(8 - 22.3)	(-)	
Depth: 0.38	Height: 0.7	1.4	(1 - 2.2)	(-)	

W:D ratio: 11.4
 Stream Flow Type: MF
 Average Unit Gradient: 2.4%
 Water temperature (°C): 6.0 - 6.0

Entrenchment (ACW:FPW ratio): 2.1
 Habitat Units/100m (total channel length): 6.6
 Habitat Units/100m (primary channel length): 8.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	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):	207	33.5
Volume (m ³):	331	53.6
Key pieces (>=12m x 0.60m):	14	2.3

OREGON DEPT OF FISH AND WILDLIFE

STEAMPOT CREEK POST-TX (1-NC, 237)

HABITAT INVENTORY

Report Date: 12/6/2006

Survey Date:

2/14/2006

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	2	47	2.7	0.18	145	0	5	10	18	0	8	60
CASCADE/BOULDERS	4	54	4.3	0.21	233	0	0	6	36	16	20	22
DRY CHANNEL	1	22	1.5	0.00	33	0	10	40	40	10	0	0
POOL-DAMMED	1	8	4.1	0.80	32	0	10	30	60	0	0	0
POOL-LATERAL SCOUR	15	164	4.0	0.70	668	0	2	23	42	13	8	12
POOL-PLUNGE	2	17	4.4	0.75	74	0	0	20	60	18	3	0
POOL-STRAIGHT SCOUR	1	11	3.7	0.50	41	0	0	18	27	27	18	9
PUDDLED UNIT	3	72	2.0	0.10	114	0	13	47	33	7	0	0
RAPID/BOULDERS	6	114	3.1	0.19	319	0	2	13	34	25	18	8
RIFFLE	10	298	3.9	0.29	1,154	0	0	18	51	22	6	3
STEP/BOULDERS	5	18	5.5	0.27	122	0	0	5	15	19	32	29
STEP/LOG	5	5	3.8	0.17	12	0	38	38	24	0	0	0
Total:	55	830	3.8	0.38	2,947	0	Avg: 6	20	38	15	10	11

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	8	4.1	0.80	32	1.09%	0	0.0	
Scour Pools	18	192	4.1	0.70	783	26.57%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	10	298	3.9	0.29	1,154	39.15%	0	0.0	
Rapids	6	114	3.1	0.19	319	10.83%	0	0.0	
Cascades	6	102	3.7	0.20	378	12.83%	0	0.0	
Step/Falls	10	22	4.6	0.22	134	4.55%	0	0.0	
Dry	4	94	1.9	0.08	147	4.98%	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:	19	22.9	30.8
Pools >=1m deep:	1	1.2	1.6
Complex pools (LWD pieces>=3):	9	10.8	14.6
Pool frequency (channel widths/pool):	6.0		
Residual pool depth (avg):	0.47		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **1-NC** SITE ID: **237** **STEAMPOT CREEK POST-TX**

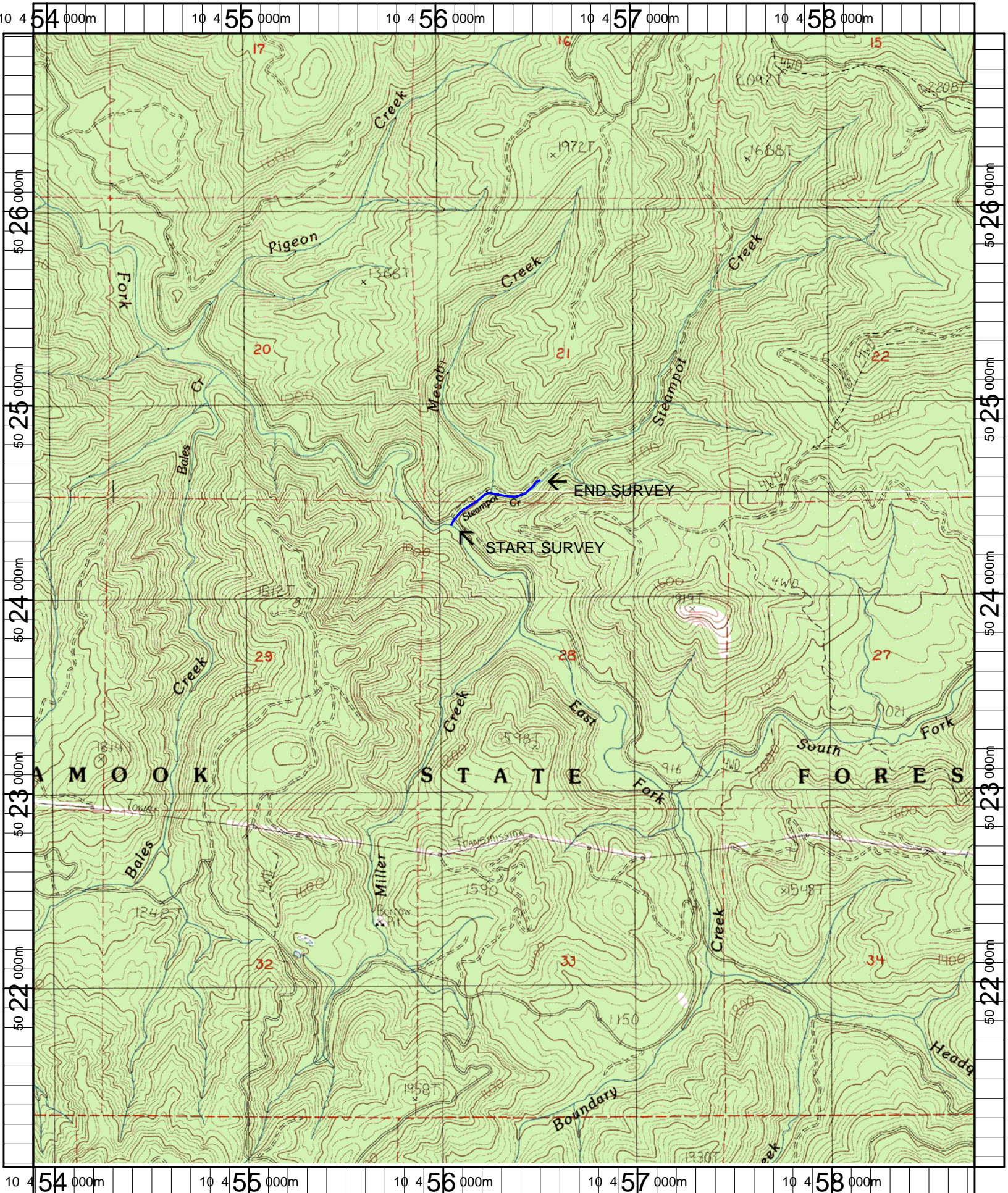
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	13.6		T = 6.0	
3	SP	00	33.9	BC	RR	
6	RB	01	80.9	HS		
16	LP	01	199.5	HS		
18	PD	02	202.7	HS	FLOOD CHANNEL	
19	LP	00	218.9	BV, HS		
20	RB	01	237.8	TJ		
21	RB	11	237.8		MASABI CREEK - 30 PER. FLOW	
22	SL	11	237.8		H = 0.55, T = 7.5	
23	RI	11	237.8	HS		
24	SL	00	238.2		H = 0.4	
25	LP	00	246.4	HS		
26	SL	00	246.7		H = 0.6	
28	LP	00	267.8	HS		
32	SL	00	323.5	DJ	H = 1.3	
35	LP	01	366.4	HS		
39	CR	01	425.3	HS, DJ	HS=ROCKS	
40	CB	01	447.5	DJ		
43	SL	01	458.1		H = 0.5	
47	RI	01	505	HS		
49	RI	01	543	HS		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 1-NC SITE ID: 237 STEAMPOT CREEK POST-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>
52	RI	00	601.1	SS/		
53	SB	00	601.4		H = 0.28	



Name: DOVRE PEAK
 Date: 2/15/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0456332 E 5023984 N
 Caption: STEAMPOT CREEK RESTORATION SITE - TRASK BASIN