

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

STREAM: Tom Fry Creek (SC-350)
BASIN: Rogue River
SURVEY TYPE: Post-Tx
DATE: March 14, 2007
SURVEY CREW: Andy Lanier, Laurel Moulton
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.5 km²
USGS MAPS: Agness
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Tom Fry Creek habitat survey extended 485 meters. The channel was constrained by hillslopes in a steep V-shape valley. The average valley width index was 1.7 (range: 1.5-2). Land use for the reach was mature timber (50-90 cm dbh) and young timber (3-15 cm dbh). The average unit gradient was 6.1 percent. Cascades (42%), rapids (24%) and scour pools (15%) dominated stream habitat. Cobble (29%), gravel (27%) and boulder (26%) dominated stream substrate. Wood volume was very high at 44.4 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.

A round, corrugated metal culvert (2.5m diameter) was recorded at 347 meters into the survey reach.

Juvenile fish, Coho salmon and a frog were observed during the survey.

REACH 1

T35S-R12W-S13-N

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	100%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	1.7	VWI Range:	1.5 - 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 Channel	485	1,422	0
Secondary Channel	0	0	0
Off-Channel Units	2	3	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 3.0	Width: 4.0	6.8 (4.5 - 9)	7.5 (7.5 - 7.5)
Depth: 0.33	Height: 0.7	1.3 (1.1 - 1.4)	1.3 (1.3 - 1.3)

W:D ratio: 6.3
 Stream Flow Type: MF
 Average Unit Gradient: 6.1%
 Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 1.7
 Habitat Units/100m (total channel length): 10.3
 Habitat Units/100m (primary channel length): 10.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	MT	YT
Riparian Vegetation:	D30	G

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):	89	18.4
Volume (m ³):	215	44.4
Key pieces (>=12m x 0.60m):	14	2.9

OREGON DEPT OF FISH AND WILDLIFE

TOM FRY CREEK POST-TX (5-SC, 350)

HABITAT INVENTORY

Report Date: 4/25/2007

Survey Date:

3/14/2007

REACH 1		T35S-R12W-S13-N					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/BOULDERS	9	188	3.4	0.16	594	0	0	9	21	34	34	2
CULVERT CROSSING	1	54	1.5	0.20	81	0	0	0	35	35	30	0
POOL-BACKWATER	1	2	1.5	0.50	3	0	0	10	19	14	57	0
POOL-DAMMED	4	33	3.0	0.51	106	0	2	20	49	14	6	8
POOL-LATERAL SCOUR	2	14	3.5	0.65	49	0	2	12	34	27	26	0
POOL-PLUNGE	13	49	3.3	0.63	165	0	0	11	28	26	27	8
RAPID/BOULDERS	7	116	2.9	0.16	341	0	0	12	34	33	18	3
RIFFLE	1	10	2.0	0.15	19	0	0	5	64	18	0	14
STEP/BEDROCK	1	1	3.0	0.15	3	0	0	0	0	0	0	100
STEP/BOULDERS	1	1	3.2	0.15	2	0	0	9	9	9	73	0
STEP/COBBLE	2	10	3.3	0.18	31	0	0	0	17	39	44	0
STEP/LOG	7	9	2.6	0.13	25	0	0	4	16	42	25	13
STEP/STRUCTURE	1	2	3.5	0.15	7	0	0	15	35	20	30	0
Total:	50	487	3.0	0.33	1,425	0	Avg: 0	10	27	29	26	7

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	5	35	2.7	0.51	109	7.65%	0	0.0	
Scour Pools	15	63	3.3	0.63	214	15.00%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	1	10	2.0	0.15	19	1.33%	0	0.0	
Rapids	7	116	2.9	0.16	341	23.89%	0	0.0	
Cascades	9	188	3.4	0.16	594	41.69%	0	0.0	
Step/Falls	12	22	2.9	0.14	68	4.76%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	54	1.5	0.20	81	5.68%	0	0.0	

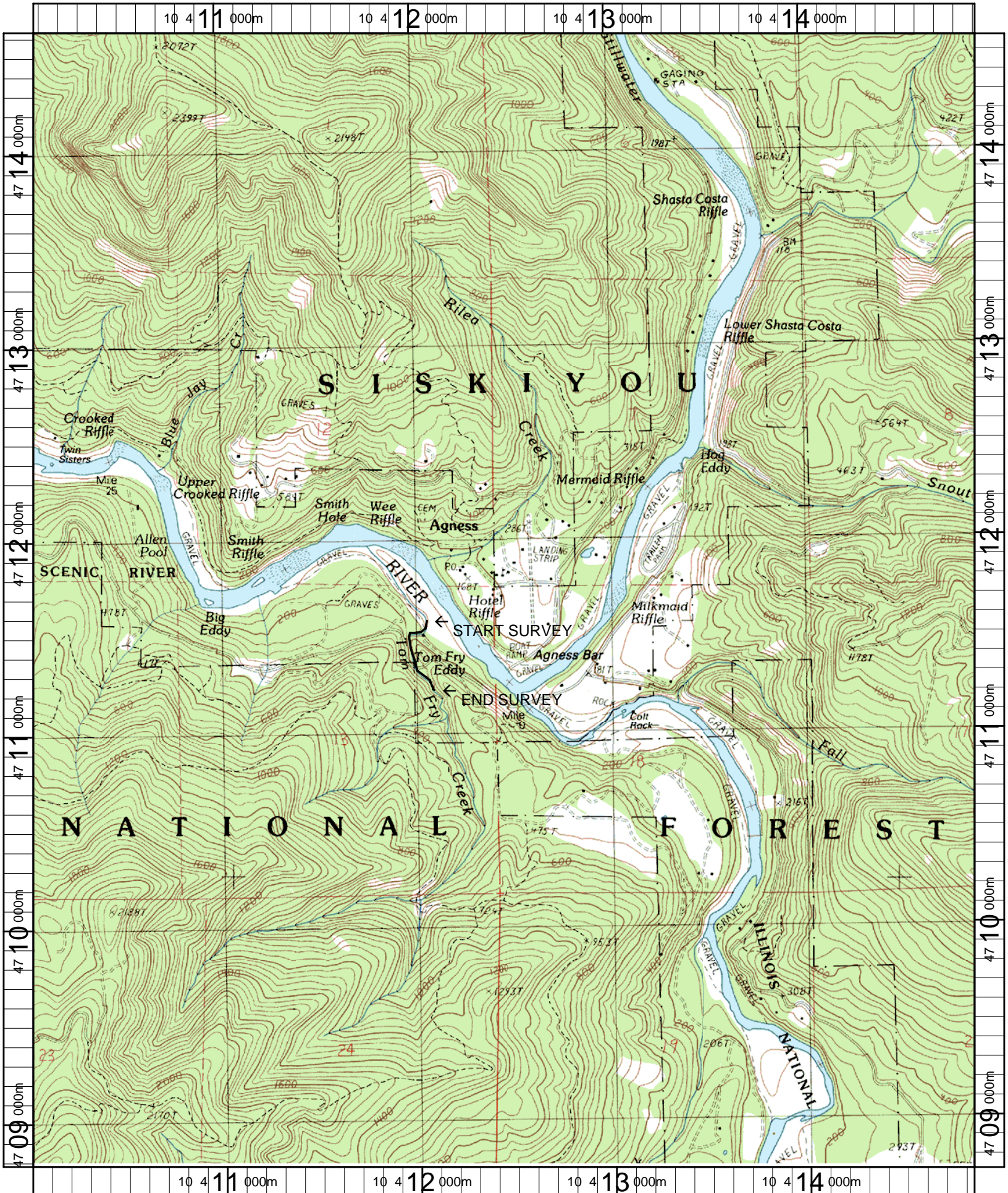
POOL SUMMARY			
	Total	Total of all Channel Lengths	
		# / Km	Primary Channel Length # / Km
All Pools:	20	41.1	41.3
Pools >=1m deep:	1	2.1	2.1
Complex pools (LWD pieces>=3):	2	4.1	4.1
Pool frequency (channel widths/pool):	6.1		
Residual pool depth (avg):	0.45		

Comment Summary

Restoration Monitoring Sites 2007

MONITORING AREA: **5-SC** SITE ID: **350** **TOM FRY CREEK POST-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
1	CB	00	22		TEMPERATURE=9.0
22	CB	00	216.8		SOME OF THESE BLDERS LOOK NEW
26	SS	00	227.8	HS	
27	DP	00	238.8	/SS	
28	RB	00	263.8	HS	2 LOGS NOT DOING MUCH YET
30	LP	00	282.8	HS	JUV FISH. ORANGE TAIL COHO
31	DP	00	293.8	HS	HS LOGS DIVID FR PREV. POOL.
32	CC	00	347.8	CC	2.5M DIAMETER ROUND CORREGATED
34	RB	00	377.8	/SS	TRILLIUM PICTURE
37	CB	00	418.8		BLACK PLASTIC WATER PIPES
45	SL	00	445.3		STEP OVER LOG JAM
46	DP	00	453.3	/SS	
47	RB	00	463.3		OLDER METAL WATER PIPES HERE.
50	CB	00	484.6		FROG



Name: AGNESS
 Date: 4/26/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0412455 E 4711679 N
 Caption: TOM FRY CREEK RESTORATION SITE - ROGUE BASIN