

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

STREAM: Little Tom Folley Creek (UMP-266)  
BASIN: Umpqua River  
SURVEY TYPE: Post-Tx  
DATE: March 10, 2008  
SURVEY CREW: Kyle Brachter, Bobby Gomez  
REPORT PREPARED BY: Sharon Tippery  
BASIN AREA: 14.9 km<sup>2</sup>  
USGS MAPS: Elkton  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The Little Tom Folley Creek habitat survey extended 2,491 meters. The channel was alternately constrained by terrace and hillslope in a broad valley floor. The average valley width index was 8.5 (range: 2-20). Land use for the reach was young trees (3-15cm dbh) and second growth timber (15-30cm dbh). The average unit gradient was 1.9 percent. Scour pools (54%), rapids (23%) and riffles (16%) dominated stream habitat. Bedrock (39%) and gravel (32%) dominated stream substrate. Wood volume was 19.2m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures including large wood and boulder weirs during the survey.

Beaver activity, juvenile salmonids, rough-skinned newts, a steelhead carcass, and redds were observed during the survey.

Survey Date: 3/10/2008

Report Date: 5/8/2008

T22S-R07W-S17NE

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	8.5	VWI Range:	2 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	2,491	14,250	0
Secondary	176	376	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 8
Width: 5.2	Width: 9.1	10.9 ( 7.9 - 17.5 )	15.8 ( 10 - 34.7 )
Depth: 0.36	Height: 0.5	1.1 ( 0.9 - 1.4 )	2.0 ( 1.5 - 3.2 )

W:D ratio: 17.5

Stream Flow Type: MF

Average Unit Gradient: 1.9%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.2

Habitat Units/100m (total channel length): 6.1

Habitat Units/100m (primary channel length): 6.5

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
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):	335	13.4
Volume (m <sup>3</sup> ):	477	19.2
Key pieces (>=12m x 0.60m):	4	0.2

OREGON DEPT OF FISH AND WILDLIFE

LITTLE TOM FOLLEY PHASE 1

HABITAT INVENTORY

GCG: 4-UMP SITE ID: 266

Survey Date: 3/10/2008

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T22S-R07W-S17NE

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	3	17	0.8	0.04	14	0	0	24	49	27	0	0
CULVERT CROSSING	1	16	0.5	0.10	8	0	100	0	0	0	0	0
POOL-BACKWATER	3	40	3.6	0.45	204	0	33	22	45	0	0	0
POOL-ISOLATED	1	5	2.0	0.30	10	0	14	29	57	0	0	0
POOL-LATERAL SCOUR	77	1,342	5.8	0.61	7,975	0	0	16	28	11	2	44
POOL-STRAIGHT SCOUR	1	7	5.4	0.55	39	0	0	0	0	0	30	70
PUDDLED UNIT	2	58	1.5	0.33	83	0	0	45	50	5	0	0
RAPID/BEDROCK	24	586	5.7	0.13	3,407	0	0	1	0	0	7	91
RAPID/BOULDERS	2	12	0.6	0.02	7	0	0	6	69	25	0	0
RIFFLE	33	516	4.2	0.15	2,423	0	0	9	58	27	1	5
STEP/BEDROCK	5	24	7.2	0.07	202	0	0	0	6	0	0	94
STEP/BOULDERS	1	5	3.9	0.20	21	0	0	21	0	0	42	37
STEP/COBBLE	6	27	6.0	0.09	173	0	1	2	78	20	0	0
STEP/LOG	2	8	4.1	0.10	32	0	40	0	10	0	0	50
STEP/STRUCTURE	2	4	6.7	0.05	25	0	0	0	0	0	100	0
<b>Total:</b>	163	2,667	5.2	0.36	14,625	0	<b>Avg:</b> 2	11	32	12	4	39

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	4	45	3.2	0.41	214	1.46%	0	0.0
Scour Pools	78	1,349	5.8	0.60	8,015	54.80%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	33	516	4.2	0.15	2,423	16.57%	0	0.0
Rapids	26	598	5.3	0.12	3,414	23.34%	0	0.0
Cascades	3	17	0.8	0.04	14	0.10%	0	0.0
Step/Falls	16	69	6.1	0.09	455	3.11%	0	0.0
Dry	2	58	1.5	0.33	83	0.57%	0	0.0
Culverts	1	16	0.5	0.10	8	0.05%	0	0.0

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POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	82	30.7	32.9
Pools >=1m deep:	4	1.5	1.6
Complex pools (LWD pieces>=3):	28	10.5	11.2
Pool frequency (channel widths/pool):	3.6		
Residual pool depth (avg):	0.43		

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**COMMENT SUMMARY**

MONITORING AREA: 4-UMP      SITE ID: 266      STREAM: LITTLE TOM FOLLEY PHASE 1

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	39.3	BC CS/CS	CTCT SD30 YTST
2	LP	00	55	AM	ROUGH-SKINNED NEWT
10	RI	00	176.9	HS DJ	
13	LP	01	229.6	/TJ	
14	RB	11	229.6		ACW=1.2M T=9C
15	SC	00	232.1	BV	CHEWED STICKS
16	LP	01	255.6	AM	ROUGH-SKINNED NEWT MATING
22	RI	00	326.7		CTCT D30S YTST
25	LP	00	359.8		JUVENILE SALMONIDS
38	PD	10	516.1		JUVENILE SALMONID
42	LP	00	583.9	DJ	
46	LP	02	614.4		JUVENILE SALMONIDS
50	SC	00	644.9		CACT YTST D30S
55	LP	00	698.8	/SS	
57	LP	00	712.8	HS	BOULDERS
62	SS	00	787.7	HS	BOULDER WEIR
65	LP	01	849.7	TJ/	
66	CB	11	849.7		ACW=1.6M T=9C
67	RR	00	873.4	HS	BOULDERS
68	LP	00	895.3	HS	BOULDER WEIR
70	RR	00	983.7	HS	BOULDERS
72	RR	00	1018.3	HS	BOULDERS

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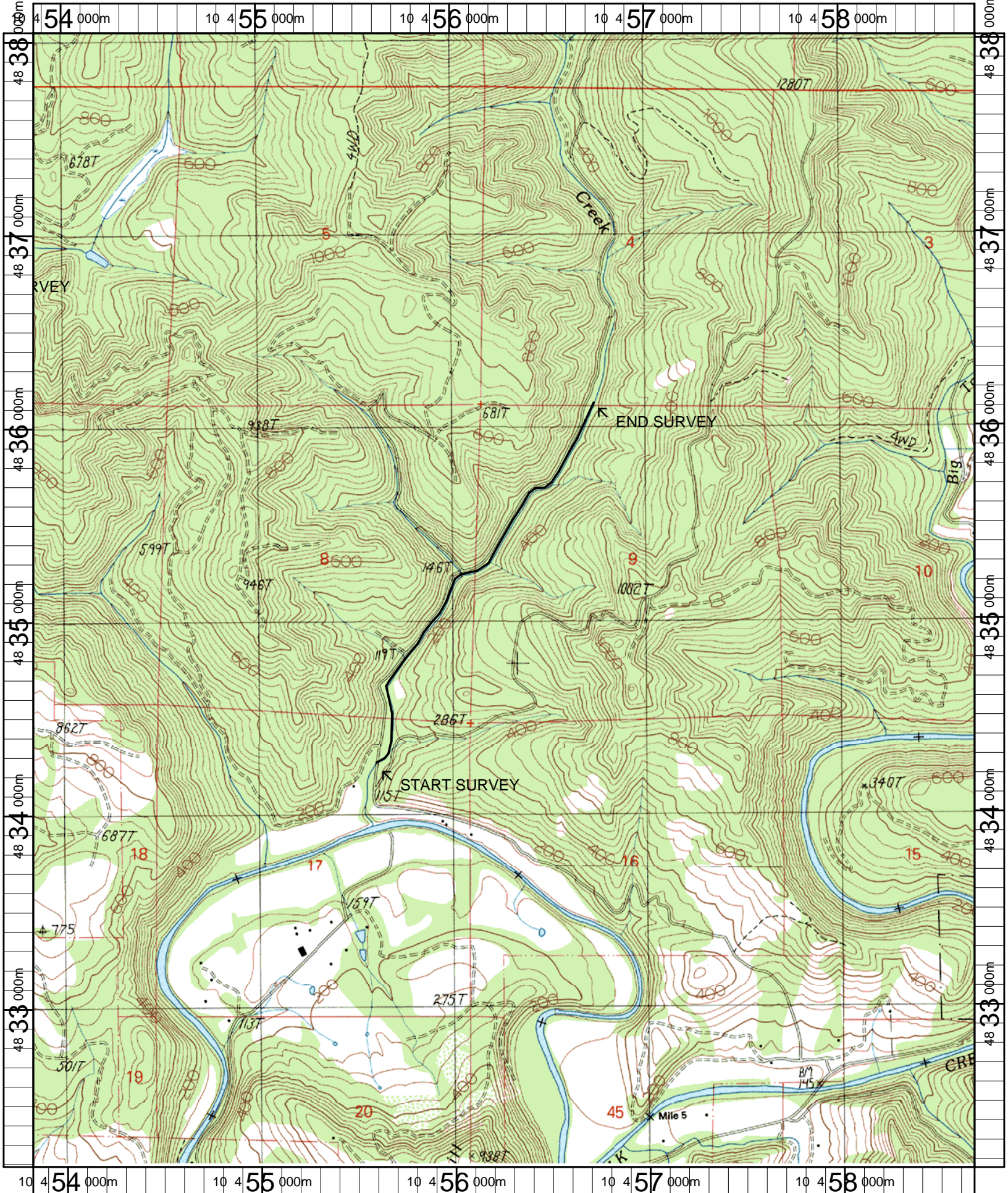
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
74	RR	00	1061.2	HS	BOULDERS
79	RR	00	1155	HS	BOULDERS
80	LP	00	1186		JUVENILE SALMONIDS
81	RR	00	1240	HS	BOULDERS
83	LP	00	1270	HS	ROCK WEIR
85	LP	00	1303.4		REDD
86	RR	00	1315.4	HS	BOULDERS
89	LP	00	1354.6	HS	BOULDERS
90	SS	00	1356.4	TJ/	
91	LP	01	1369.4	TJ/	
93	CC	11	1369.4	CC	DIAMETER=2.2M NO STEP, T=8C, ACW= 1.3M, SUBSTRATE: STEEL
96	RR	00	1420.4	HS	BOULDERS
97	LP	00	1464.4	/SS HS	SALMONIDS
99	LP	00	1488.9	HS DJ	LOGS
100	RI	00	1494.9		STEELHEAD CARCASS
101	LP	00	1504.2	HS DJ	LOGS
103	RI	01	1539.8	/TJ	CACT M30S STLT
104	SL	11	1539.8		T=8C ACW=0.8M
105	LP	00	1554.1	HS DJ	
110	LP	00	1602.7	HS DJ	
111	RI	00	1659.7	CS/ CE/	
113	RR	01	1704.7	HS DJ	

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UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
118	LP	00	1738.3	DJ	
120	LP	00	1763.6	DJ	
123	RI	00	1825		POCKET: 3M X 1M X 0.3M
124	LP	00	1852	BV /SS	STICKS
125	RR	00	1887		POCKET 4M X 4M X 0.7M REDD AT TAILOUT
127	RI	01	1930.8	TJ/	
128	CB	11	1930.8		T=9C ACW=1.1M
130	RI	00	1950.5		CACT M30S STLT
136	RR	00	2064.6		POCKET 3M X 4M X 0.45M
137	SL	00	2068.6	DJ	
139	LP	00	2111.8	DJ HS	
142	RR	01	2154.4	DJ HS /TJ	
143	CB	11	2154.4		ACW=1.4M T=9C
144	LP	00	2177.1	DJ HS	
148	LP	00	2232.8	HS DJ	
150	LP	00	2271.7	DJ HS	
154	LP	00	2310.8	HS DJ	
157	SR	00	2373.8	HS DJ	
160	LP	00	2419.3	HS	
161	RR	00	2443.3	HS	BOULDERS
162	LP	00	2458.3	HS	BOULDER WEIR
164	LP	00	2491.3	HS	BOULDERS





Name: ELKTON (OR)  
 Date: 4/25/2007  
 Scale: 1 inch equals 2000 feet

Location: 10 0456263 E 4835102 N  
 Caption: LITTLE TOM FOLLEY CREEK RESTORATION SITE - UMPQUA BASIN