ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	Little Tom Folley Creek Phase 1 (U-266)
BASIN:	Umpqua River
SURVEY TYPE:	Post-Tx
DATE:	September 18, 2006
SURVEY CREW:	Brian Cannon, Paul Jacobsen
REPORT PREPARED BY:	Paul Jacobsen
BASIN AREA:	14.9 km^2
USGS MAPS:	Elkton
ECOREGION:	Coast Range Sedimentary

GENERAL DESCRIPTION:

The Little Tom Folley Creek habitat survey extended 2,445 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 4.4 (range: 1.5-10.0). Land use for the reach was young (3-15 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 1.1 percent. Scour pools (57%) and riffles (24%) dominated stream habitat. Bedrock (38%) and gravel (24%) dominated stream substrate. Wood volume was moderate at 20.0 m^3/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

OREGON DEPT OF FISH AND WILDLIFE LITTLE TOM FOLLEY PHASE 1 POST-TX (4-UMP, 266)

HABITAT INVENTORY Report Date: 2/27/2007 Survey Date: 9/18/2006

REACH 1 **T22S-R07W-S17NE** **REACH 1**

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%

Valley Width Index 4.4 VWI Range: 1.5 - 10

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

Type	Length (m)	Area (m2)	Dry Units
Primary Channel	2,445	8,764	0
Secondary Channel	43	69	1
Off-Channel Units	231	672	4

Channel Dimensions (m)

Wetted	Active	Floodprone *n* = 11	First Terrace *n* = 9
Width: 3.2	Width: 7.7	11.7 (5.9 - 40)	11.0 (6.4 - 16)
Depth: 0.27	Height: 0.5	1.0 (0.8 - 1.2)	1.6 (1.2 - 2.1)

W:D ratio: 15.3
Stream Flow Type: LF
Average Unit Gradient: 1.1%
Water temperature (°C): 16.0 - 16.0

Entrenchment (ACW:FPW ratio): 1.4
Habitat Units/100m (total channel length): 5.9
Habitat Units/100m (primary channel length): 6.5

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	YT	ST
Riparian Vegetation:	D15	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:	8%	Reach avg: 84%
Undercut Banks:	11%	Range: 14 - 100

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	337	13.8
Volume (m^3):	489	20.0
Key pieces (>=12m x 0.60m):	25	1.0

OREGON DEPT OF FISH AND WILDLIFE LITTLE TOM FOLLEY PHASE 1 POST-TX (4-UMP, 266)

HABITAT INVENTORY Report Date: 3/5/2007 Survey Date: 9/18/2006

REACH 1 **T22S-R07W-S17NE** **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	1	6	0.9	0.01	5	0	10	40	50	0	0	0
DRY CHANNEL	1	27	2.2	0.00	60	0	10	20	60	10	0	0
DRY UNIT	3	43	1.5	0.00	62	2	8	43	20	15	7	7
GLIDE	14	219	3.5	0.11	778	28	7	15	18	4	2	53
POOL-ISOLATED	1	4	2.5	0.60	10	0	30	60	10	0	0	0
POOL-LATERAL SCOUR	67	1,304	4.1	0.54	5,400	87	9	22	23	5	1	39
PUDDLED UNIT	1	5	0.2	0.02	1	0	5	15	70	10	0	0
RAPID/BEDROCK	10	247	2.7	0.05	684	5	2	8	2	0	0	88
RAPID/BOULDERS	4	36	2.1	0.06	85	7	8	22	37	24	6	2
RIFFLE	36	682	2.6	0.07	1,980	81	4	15	30	18	6	26
RIFFLE W/ POCKETS	3	65	3.8	0.12	278	12	3	10	7	7	6	69
STEP/BEDROCK	6	25	2.6	0.04	76	1	0	1	1	0	0	98
STEP/BOULDERS	1	6	1.7	0.05	10	8	0	10	25	30	30	5
STEP/COBBLE	12	49	1.5	0.04	75	5	6	18	43	25	4	4
Total:	160	2,718	3.2	0.27	9,505	236	**Avg:** 7	18	24	10	3	38

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m^2)	Wetted Area Percent	Large Boulders Number	Large Boulders (# / $100m^2$)
Dammed & BW Pools	1	4	2.5	0.60	10	0.11%	0	0.0
Scour Pools	67	1,304	4.1	0.54	5,400	56.81%	87	1.6
Glides	14	219	3.5	0.11	778	8.18%	28	3.6
Riffles	39	747	2.7	0.07	2,258	23.75%	93	4.1
Rapids	14	283	2.5	0.05	769	8.09%	12	1.6
Cascades	1	6	0.9	0.01	5	0.06%	0	0.0
Step/Falls	19	79	1.9	0.04	162	1.70%	14	8.7
Dry	5	75	1.4	0.00	123	1.29%	2	1.6
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	68	25.0	27.8
Pools >=1m deep:	2	0.7	0.8
Complex pools (LWD pieces>=3):	20	7.4	8.2
Pool frequency (channel widths/pool):	5.2		
Residual pool depth (avg):	0.51		

OREGON DEPARTMENT OF FISH AND WILDLIFE **LITTLE TOM FOLLEY PHASE 1 POST-TX**

HABITAT INVENTORY **GCG: 4-UMP SITE ID: 266**

Survey Date 9/18/2006

Report Date: 3/5/2007

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) 9 transects

Total hardwoods/1000	718
Total conifers/1000 ft	420
Total conifers >20" dbh/1000 ft	7
Total conifers >35" dbh/1000 ft	7

Average number of trees in a 5-meter wide band

Diameter	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
class (cm)	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.1	2.1	0.7	2.4	1.3	3.1	2.1	7.7
15-30cm	0.6	2.0	0.9	0.6	1.4	0.8	2.9	3.3
30-50cm	0.6	0.4	0.4	0.0	0.8	0.1	1.8	0.6
50-90cm	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2
>90cm	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
Total/100m2	1.2	4.7	2.1	3.1	3.6	4.0	2.3	3.9

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	53	59	59
Shrub cover	62	56	38
Grass/forb cover	31	33	50

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	39	44	83
High terrace	44	39	6
Low terrace	11	6	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	6	11	11
Riprap	0	0	0
Surface slope (%)	13	23	46

OREGON DEPARTMENT OF FISH AND WILDLIFE **LITTLE TOM FOLLEY PHASE 1 POST-TX**

HABITAT INVENTORY - RIPARIAN SURVEY **GCG: 4-UMP** **SITE ID: 266** **9/18/2006**

Summary of Riparian Zone (0-30m) for all reaches **9 transects**

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	718
Total conifers/1000 ft	420
Total conifers >20" dbh/1000 ft	7
Total conifers >35" dbh/1000 ft	7

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3 0-30 meters Conifer	Hardwood
3-15cm	2.1	7.7
15-30cm	2.9	3.3
30-50cm	1.8	0.6
50-90cm	0.0	0.2
>90cm	0.1	0.0

OREGON DEPT OF FISH AND WILDLIFE LITTLE TOM FOLLEY PHASE 1 POST-TX (4-UMP:266)

HABITAT INVENTORY Report Date: 3/5/2007 Survey Date: 9/18/2006

GCG: 4-UM SITE ID: 266

RIPARIAN ZONE VEGETATION

Reach 1 Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent) Canopy	Shrub	Grass		Diameter class (cm) 3-15	15-30	30-50	50-90	>90	Notes
23	LF	1	HT	0	80	90	10	**Conifer**						MAPLE
								Hardwood				1		
23	RT	1	HT	0	0	100	0	**Conifer**						BLACKBERRY
								Hardwood						
23	RT	2	HT	0	0	100	0	**Conifer**						
								Hardwood						
23	LF	3	RB	5	0	40	20	**Conifer**	1					RB/HS
								Hardwood						
23	LF	2	HT	0	50	90	10	**Conifer**						ALDER
								Hardwood	2					
23	RT	3	HT	3	0	100	0	**Conifer**						HT/HS
								Hardwood						
35	LF	2	HT	0	90	100	0	**Conifer**						ALDER
								Hardwood				1		
35	RT	3	HS	10	80	60	40	**Conifer**		1	1			DOUG FIR, ALDER
								Hardwood	5					
35	LF	1	LT	0	30	100	0	**Conifer**						
								Hardwood	2					
35	RT	2	LT	0	80	100	0	**Conifer**						
								Hardwood						
35	RT	1	LT	0	30	100	0	**Conifer**						
								Hardwood	1					
35	LF	3	RB	3	20	30	20	**Conifer**						RB/HS
								Hardwood						
51	LF	2	HS	10	20	30	10	**Conifer**	1	1				HS/RB
								Hardwood						
51	RT	1	HT	0	20	100	0	**Conifer**						
								Hardwood						
51	LF	3	HS	30	10	20	80	**Conifer**	2					DOUG FIR
								Hardwood						
51	LF	1	HS	30	20	100	0	**Conifer**						ALDER
								Hardwood			1			
51	RT	2	HT	0	10	100	0	**Conifer**						
								Hardwood						
51	RT	3	HS	15	40	80	20	**Conifer**						ALDER
								Hardwood		1				

61	LF	2	HS	80	60	50	50	**Conifer**					
								Hardwood	1				
61	LF	3	HS	70	70	40	60	**Conifer**	2	1			DOUG FIR
								Hardwood					
61	RT	1	HT	0	70	30	70	**Conifer**					ALDER
								Hardwood	1		1		
61	RT	3	HS	70	40	20	70	**Conifer**					ALDER
								Hardwood	1	1			
61	LF	1	RB	0	20	20	20	**Conifer**					ALDER, 60% RB
								Hardwood		1			
61	RT	2	HS	50	70	20	80	**Conifer**					ALDER
								Hardwood		1			
74	LF	1	HS	30	50	40	10	**Conifer**					ALDER, 50% RB
								Hardwood			1		
74	LF	2	HS	80	70	40	60	**Conifer**	2				DOUG FIR, MAPLE, ALDER
								Hardwood	5				
74	LF	3	HS	70	70	30	70	**Conifer**	3				DOUG FIR, ALDER, MAPLE
								Hardwood	5				
74	RT	1	HS	50	80	40	60	**Conifer**		2			CEDAR, FIR
								Hardwood		1	1		
74	RT	2	HS	70	60	20	70	**Conifer**		1			DOUG FIR
								Hardwood					
74	RT	3	HS	75	50	40	60	**Conifer**		1			
								Hardwood					
94	LF	3	HS	70	80	50	30	**Conifer**		3			MAPLE
								Hardwood	3	2			
94	RT	3	HS	60	90	60	40	**Conifer**		1	1		
								Hardwood	4	1			
94	RT	2	HT	0	80	40	60	**Conifer**				1	CEDAR, VINE MAPLE
								Hardwood	5				
94	RT	1	HT	15	90	40	60	**Conifer**					ALDER, MAPLE
								Hardwood	7	5			
94	LF	2	HS	40	70	60	20	**Conifer**			1		
								Hardwood	5	1			
94	LF	1	HT	0	80	30	40	**Conifer**					ALDER, 30% RB
								Hardwood		7			
110	RT	3	HS	60	90	10	80	**Conifer**			2		CEDAR, DOUG FIR, MAPLE
								Hardwood	2				
110	LF	2	RB	10	60	10	50	**Conifer**	1	2	1		40% RB
								Hardwood					
110	LF	1	HS	25	85	20	80	**Conifer**		1	3		CEDAR, DOUG FIR, VINE MAPLE
								Hardwood	1				
110	RT	1	HT	20	80	30	70	**Conifer**			1		
								Hardwood					
110	LF	3	HS	80	90	10	70	**Conifer**	2	2			DOUG FIR, VINE MAPLE
								Hardwood	4				

110	RT	2	HT	0	90	20	70	**Conifer**	1		1	VINE MAPLE
								Hardwood	1			
131	LF	2	HT	0	40	90	10	**Conifer**				
								Hardwood				
131	LF	3	HS	10	70	20	60	**Conifer**	1	1	2	
								Hardwood				
131	RT	2	HS	60	80	70	30	**Conifer**	1	1	1	CEDAR
								Hardwood				
131	RT	3	HS	70	90	40	60	**Conifer**				MAPLE, VINE MAPLE
								Hardwood	2		1	
131	LF	1	HT	0	20	90	10	**Conifer**				
								Hardwood				
131	RT	1	HS	15	20	60	40	**Conifer**				VINE MAPLE
								Hardwood	3			
145	LF	3	HS	80	90	10	50	**Conifer**	1	3		DOUG FIR
								Hardwood				
145	RT	3	HS	40	80	20	70	**Conifer**			1	CEDAR, VINE MAPLE, MAPLE
								Hardwood	2	2		
145	RT	1	HS	25	90	60	40	**Conifer**	1	2		ALDER, VINE MAPLE
								Hardwood	4	1		
145	LF	2	RB	0	60	30	10	**Conifer**		2		60% RB, DOUG FIR
								Hardwood		1		
145	LF	1	HS	25	85	60	40	**Conifer**			1	CEDAR, ALDER
								Hardwood		3		
145	RT	2	HS	15	80	40	60	**Conifer**		1		DOUG FIR
								Hardwood	3	2		

Comment Summary

Restoration Monitoring Sites 2006

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SC	00	2.9	HS	HS=3 BLDRS	
2	GL	00	12.9	CS/CS,HS	BC, HS=4 BLDRS	BC
3	RB	00	21.9		PILEATED WOODPECKER	
4	LP	00	31.4			US
6	LP	00	59.7		CA,CT,YT,ST,D3,S	
10	RI	00	105.1	WL		PACIFIC TREE FROG
16	RI	00	179.6	BV		
19	LP	01	231.6	/TJ		
22	LP	00	268.1	WL	COWPIES	RSN
23	LP	00	303.1		CT,CT,YT,ST,D30,S	
26	RI	00	364.9	WL		SCULPIN
27	LP	00	377.9	WL		RSN
28	SC	00	381.7	WL	RSN	RSN
32	RI	01	454.9	TJ/	TJ/	
35	LP	00	509.4		US,MT,YT,D30,S	
39	LP	01	590	BV, DJ	COWPIE, DJ, BV	DEN
44	LP	00	668.6	DJ, WL	DJ	COHO FRY
47	SC	00	693		SONG SPARROW	
50	LP	00	744.5			T=16.5C AT 1400HRS
51	RI	00	756		CA,CT,YT,D30,S	
52	LP	00	771.5		SITE 1 FLAG	

Comment Summary

Restoration Monitoring Sites 2006

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
53	LP	00	818.3		TOWHEE	COHO FRY
54	RI	00	834.6		WOODPECKER	
55	LP	00	867.6		SITE 2 FLAG	
57	LP	01	919.6	TJ/	TJ/	
59	RI	00	968.8		SITE 3	
61	RI	00	1042.5		CA,CT,YT,D15,S	
67	RP	00	1131.4		SITE 7 FLAG	
68	GL	00	1151.1		SITE 8 FLAG	
73	LP	00	1241.3	WL	CRF	CRAYFISH
74	SR	00	1243.3		CH,SV,YT,D15,S, FLAG SITE	
76	RI	00	1287.9	WL	CRF	CF
84	SC	00	1391.6		FLAG SITE 13	
85	LP	01	1415.7	TJ/	TJ/	
86	DU	11	1415.7		NEXT UNIT CC UNDER MAIN	
90	LP	10	1415.7			PROPERTY BOUNDARY LI
91	LP	10	1415.7		RAIN BEGINS	BLM PROPERTY
92	SR	10	1415.7	HS	HS=6 LOGS	WOOD
93	LP	10	1415.7		ENTER ST LEFT, STILL YT RI	
94	SR	10	1415.7		CT,CT,YT,ST,D15,S	
95	LP	10	1415.7	HS	FLAG-BLM SITE 1, HS=5 LOG	WOOD
96	RP	10	1415.7	HS	FLAG SITE 2, HS=6 LOGS	WOOD

Comment Summary

Restoration Monitoring Sites 2006

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

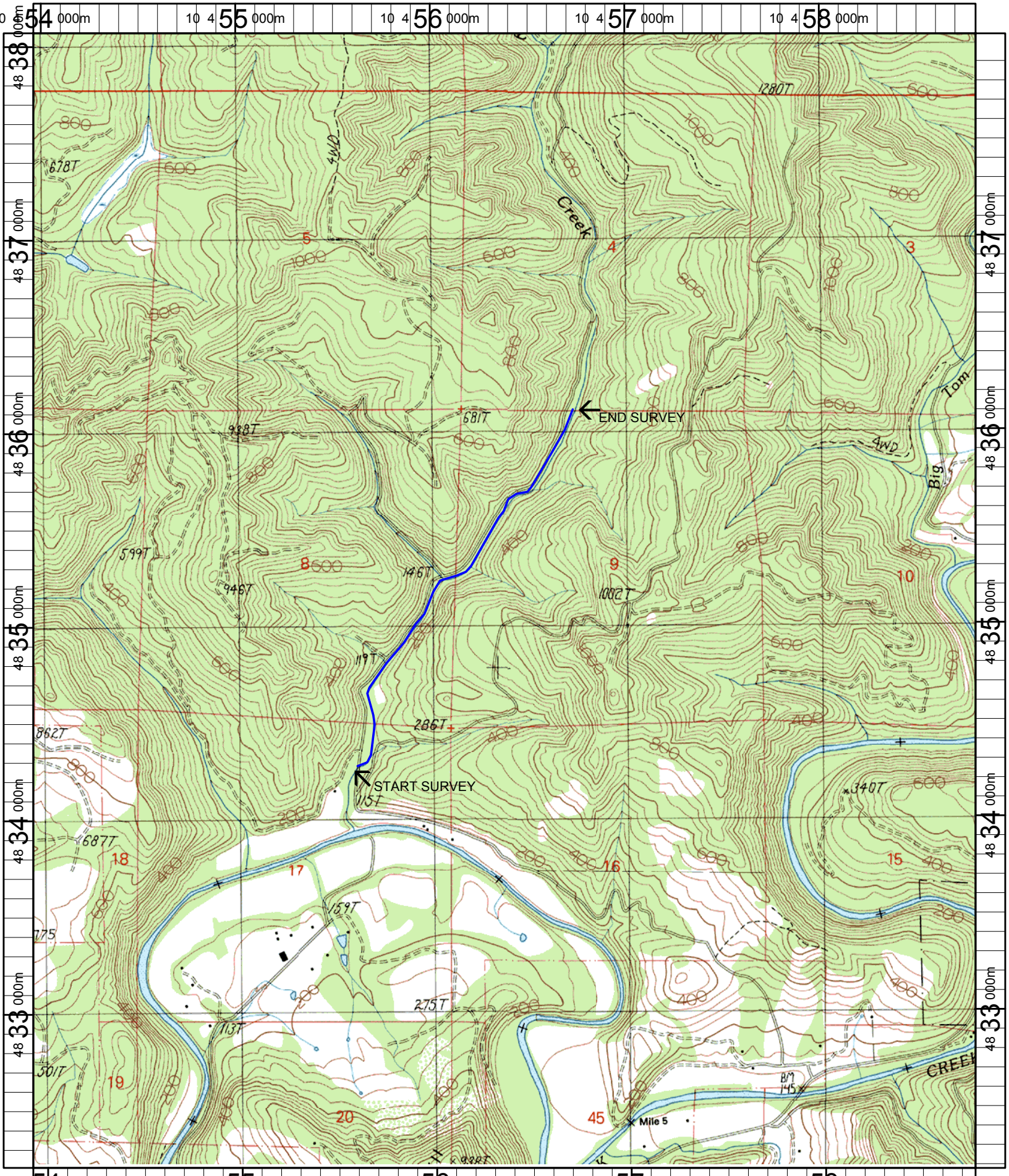
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
97	GL	10	1415.7		FLAG BLM SITE 3	
98	RI	01	1436.9	/TJ		
99	PD	11	1436.9			WOOD
100	LP	00	1445.3	HS	HS=12 LOGS	
104	RI	00	1496.3	HS	HS=10 LOGS, BLM SITE 6	WOOD
105	GL	00	1509.3		BLM SITE 7 FLAG	
108	RI	00	1558.2	CS/, CE/		
109	LP	00	1583.8	CS/	WINTER WREN	
110	RR	01	1603.3	HS	CT,MT,LT,ST,D15,S	
111	LP	01	1619.6	HS	HS=5 LOGS	
114	LP	00	1641.1	DJ		
125	LP	00	1817	WL		RSN
131	LP	00	1863.8		CT,CT,LT,ST,D30,S	
135	GL	00	1913.7		FLAG BLM SITE 9	
136	RI	00	1940.7	HS	HS=12 LOGS, BLM SITE 10	WOOD
138	RR	00	2009.3	DJ	DJ	
139	GL	00	2019.8	WL		COHO FRY
141	LP	00	2069.1	HS	HS=5 LOGS	WOOD, SITE 11
142	RI	01	2086.1	/TJ, HS	HS=6 LOGS	WOOD, SITE 12
144	GL	00	2113.1	WL		COHO FRY
145	RI	00	2146.1	HS	CH,MV,CT,MT,D15,S, HS=5 L	WOOD

Comment Summary

Restoration Monitoring Sites 2006

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
146	LP	00	2170.1	HS	HS=5 LOGS	WOOD
148	LP	00	2225.1	HS	HS=11 LOGS	WOOD
150	LP	00	2252.1	HS	HS=5 LOGS	WOOD
151	RI	00	2287.1	HS		SAME HS AS UNIT 150
152	RR	00	2306.1	HS	HS=2 LOGS	
154	SR	00	2318.1	HS		
155	LP	00	2336.6	HS	HS=7 LOGS	SAME HS AS UNIT 154
160	RR	00	2444.7		CA,CT,LT,ST,D15,S	



Name: ELKTON
Date: 1/27/2005
Scale: 1 inch equals 2000 feet

Location: 10 456364 E 4835124 N
Caption: LITTLE TOM FOLLEY CREEK RESTORATION SITE - UMPQUA BASIN