

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

STREAM: Clover Creek (U-130)
BASIN: North Umpqua River
SURVEY TYPE: Post-Tx
DATE: June 30, 2003
SURVEY CREW: Peter Baki, Scott Kirby
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 18.4 km²
USGS MAPS: Winchester
ECOREGION: Coast Range Umpqua Valleys

GENERAL DESCRIPTION:

The Clover Creek habitat survey extended 552 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 9.6 (range: 5.0-20.0). Land use for the reach was agriculture. The average unit gradient was 0.8 percent. Scour pools (63%) and riffles (34%) dominated stream habitat. Fines (38%) and bedrock (21%) dominated stream substrate. Wood volume was low at 13.3 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.

OREGON DEPARTMENT OF FISH AND WILDLIFE

CLOVER CREEK POST-TX (U-130)

HABITAT INVENTORY

Report Date: 12/18/03

Survey Date:

6/30/03

REACH 1		T26S-R05W-S26NE					REACH 1						
HABITAT DETAIL													
Habitat Type	Number	Total	Avg	Avg	Total	Large	Substrate						
	Units	Length	Width	Depth	Area	Boulders	Percent Wetted Area						
		(m)	(m)	(m)	(m ²)	(#>0.5m)	S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
POOL-LATERAL SCOUR	12	268	2.8	0.66	727	8	54	14	12	7	4	9	
RAPID/BOULDERS	2	21	1.7	0.65	36	16	18	23	5	24	29	0	
RIFFLE	12	262	1.4	0.14	391	27	24	11	19	5	4	37	
Total:	26	552	2.1	0.42	1,155	51	Avg 38	13	15	7	6	21	

HABITAT SUMMARY									
Habitat Group	Number	Total	Avg	Avg	Wetted Area		Large Boulders		
	Units	Length	Width	Depth	(m ²)	Percent	Number	(# / 100m ²)	
		(m)	(m)	(m)					
Dammed & BW Pools	0	0			0	0.00%	0	0.0	
Scour Pools	12	268	2.8	0.66	727	62.98%	8	1.1	
Glides	0	0			0	0.00%	0	0.0	
Riffles	12	262	1.4	0.14	391	33.87%	27	6.9	
Rapids	2	21	1.7	0.65	36	3.15%	16	44.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	0	0			0	0.00%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	12	21.8
Pools >=1m deep:	1	1.8
Complex pools (LWD pieces>=3):	5	9.1
Pool frequency (channel widths/pool):	8.6	
Residual pool depth (avg):	0.64	

STREAM SUMMARY

CLOVER CREEK POST-TX (U-130)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
26	552	2.1	0.42	1,155	38	13	15	7	6	21	51

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	0	0.00%
Scour Pools	727	62.98%
Glides	0	0.00%
Riffles	391	33.87%
Rapids	36	3.15%
Cascades	0	0.00%
Step/Falls	0	0.00%
Dry	0	0.00%
Culverts	0	0.00%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1	REACH 1
Summary of Riparian Zone (0-30m) 3 transects	
Total hardwoods/1000	325
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	1.3	0.0	0.7	0.0	0.3	0.0	2.3
15-30cm	0.0	0.7	0.0	0.0	0.0	0.7	0.0	1.3
30-50cm	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
50-90cm	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	3.7	0.0	0.7	0.0	1.0	0.0	1.8

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Canopy closure	33	6	0
Shrub cover	2	0	0
Grass/forb cover	98	100	100

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Hillslope	17	83	83
High terrace	83	17	17
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	8	30	23

Summary of Riparian Zone (0-30m) for all reaches 3 transects

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

Total hardwoods/1000	325
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3 <u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	2.3
15-30cm	0.0	1.3
30-50cm	0.0	1.0
50-90cm	0.0	0.7
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

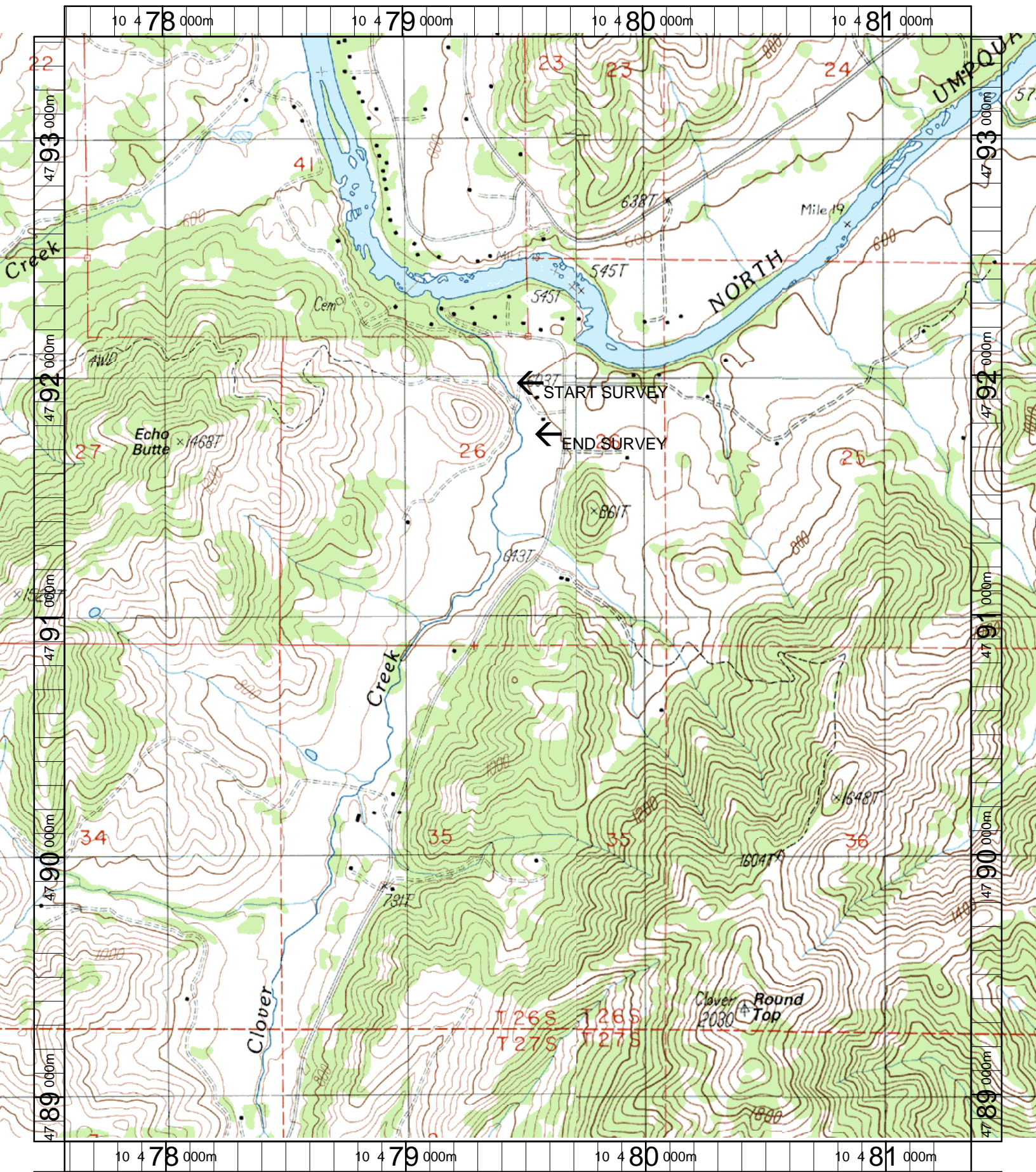
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
8	RT	3	HS	25	0	0	100	Conifer							
								Hardwood							
8	RT	2	HS	20	5	0	100	Conifer							
								Hardwood							
8	RT	1	HT	0	50	0	100	Conifer							
								Hardwood	4	2					
8	LF	3	HS	15	0	0	100	Conifer							
								Hardwood							
8	LF	1	HT	0	0	0	100	Conifer							
								Hardwood							
8	LF	2	HS	30	0	0	100	Conifer							
								Hardwood							
14	LF	2	HS	30	0	0	100	Conifer							ESTIMATED (FENCE)
								Hardwood							
14	LF	3	HS	15	0	0	100	Conifer							ESTIMATED (FENCE)
								Hardwood							
14	LF	1	HT	0	70	0	100	Conifer							
								Hardwood			2	2			
14	RT	1	HT	0	40	0	100	Conifer							
								Hardwood							
14	RT	2	HS	60	0	0	100	Conifer							ESTIMATED (FENCE)
								Hardwood							
14	RT	3	HS	50	0	0	100	Conifer							ESTIMATED (FENCE)
								Hardwood							
21	RT	2	HS	40	0	0	100	Conifer							
								Hardwood							
21	LF	1	HT	0	10	10	90	Conifer							
								Hardwood							
21	RT	3	HS	35	0	0	100	Conifer							
								Hardwood							
21	LF	2	HT	0	30	0	100	Conifer							
								Hardwood	2						
21	LF	3	HT	0	0	0	100	Conifer							
								Hardwood	1	2					
21	RT	1	HS	50	30	0	100	Conifer							
								Hardwood			1				

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 4-UMP SITE ID: 130 CLOVER CREEK POST-TX (U-130)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	25	HS	REACH PHOTO 0007	START SIGN ON LEFT
2	RI	00	50	HS		
4	LP	00	71.8	HS		
5	RI	00	96.8	RF, FC		BARBED WIRE
6	RI	00	120.8	HS		
7	LP	00	157	HS		
8	LP	00	176.5	HS		
10	LP	00	203.2	HS		
19	RI	00	364.7	BC		
20	LP	00	402.4	TJ/ HS		
21	LP	00	430.4	HS		
24	RI	00	498.8	RF		
25	LP	00	526.5	FC		2 FENCES
26	RI	00	551.5	TJ/		END SIGN



Name: WINCHESTER
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 479469 E 4791117 N
 Caption: CLOVER CREEK RESTORATION SITE - NORTH UMPQUA BASIN