

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

STREAM: Edson Creek Upper (S-170)  
BASIN: Rogue River  
SURVEY TYPE: Pre-Tx  
DATE: June 25, 2003  
SURVEY CREW: Nate Davis, Lucas Lawrence  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 10.2 km<sup>2</sup>  
USGS MAPS: Gold Beach  
ECOREGION: Coast Range Sitka Spruce

**GENERAL DESCRIPTION:**

The Edson Creek habitat survey extended 505 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 15.0 (range: 10.0-20.0). Land use for the reach was grazing enclosure and agriculture. The average unit gradient was 1.4 percent. Scour pools (66%) and riffles (22%) dominated stream habitat. Gravel (58%) dominated stream substrate. Wood volume was very low at 2.4 m<sup>3</sup>/100m.

**COMMENTS:**

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



OREGON DEPARTMENT OF FISH AND WILDLIFE

EDSON CREEK UPPER PRE-TX (S-170)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

6/25/03

REACH 1		T36S-R14W-S05SW					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	
CULVERT CROSSING	1	5	2.0	0.01	10	0	0	0	78	11	11	0	0
GLIDE	1	12	2.0	0.20	23	0	5	0	71	24	0	0	0
POOL-ALCOVE	1	4	0.6	0.10	2	0	73	9	18	0	0	0	0
POOL-BACKWATER	1	2	1.6	0.30	3	5	33	28	22	6	11	0	0
POOL-DAMMED	1	6	3.6	0.90	23	6	27	9	18	9	36	0	0
POOL-ISOLATED	1	2	1.1	0.20	3	0	0	0	100	0	0	0	0
POOL-LATERAL SCOUR	27	270	2.3	0.50	655	55	15	20	48	10	3	3	3
POOL-STRAIGHT SCOUR	1	9	1.9	0.30	17	1	5	11	32	32	0	21	0
RIFFLE	11	119	1.5	0.08	177	4	1	7	74	15	0	3	0
RIFFLE W/ POCKETS	2	36	1.4	0.15	50	7	5	10	55	31	0	0	0
STEP/COBBLE	15	44	1.3	0.04	56	5	1	3	80	15	0	1	0
STEP/LOG	1	1	0.6	0.03	1	0	0	0	30	70	0	0	0
STEP/STRUCTURE	2	3	1.1	0.05	4	5	0	0	0	20	50	30	0
<b>Total:</b>	65	513	1.8	0.27	1,025	88	<b>Avg</b>	9	11	58	14	4	3

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		8
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	4	14	1.7	0.38	30	2.97%	11	36.1	
Scour Pools	28	279	2.3	0.49	673	65.63%	56	8.3	
Glides	1	12	2.0	0.20	23	2.28%	0	0.0	
Riffles	13	155	1.5	0.09	228	22.21%	11	4.8	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	18	48	1.2	0.04	61	5.93%	10	16.4	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	5	2.0	0.01	10	0.98%	0	0.0	

POOL SUMMARY		
	Total	# / Km
All Pools:	32	62.3
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	1	1.9
Pool frequency (channel widths/pool):	4.0	
Residual pool depth (avg):	0.44	

**STREAM SUMMARY**

**EDSON CREEK UPPER PRE-TX (S-170)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
65	513	1.8	0.27	1,025	9	11	58	14	4	3	88

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	30	2.97%
Scour Pools	673	65.63%
Glides	23	2.28%
Riffles	228	22.21%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	61	5.93%
Dry	0	0.00%
Culverts	10	0.98%

**RIPARIAN ZONE VEGETATION SUMMARY**

**REACH 1** **REACH 1**

**Summary of Riparian Zone (0-30m) 3 transects**

Total hardwoods/1000	386
Total conifers/1000 ft	203
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	0.3	4.3	1.3	0.3	0.7	0.3	2.3	5.0
15-30cm	0.3	1.3	0.3	0.0	0.3	0.0	1.0	1.3
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	5.7	1.7	0.3	1.0	0.3	1.1	2.1

**Canopy closure and ground cover**

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	48	6	12
Shrub cover	29	17	20
Grass/forb cover	47	76	53

**Predominant landform in each zone**

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	0	50	50
High terrace	83	50	33
Low terrace	17	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	17
Riprap	0	0	0
Surface slope (%)	1	13	19

---

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	386
Total conifers/1000 ft	203
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	2.3	5.0
15-30cm	1.0	1.3
30-50cm	0.0	0.0
50-90cm	0.0	0.0
>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		
19	RT	3	HS	20	60	0	20	Conifer	2	1					
								Hardwood							
19	RT	2	HS	20	20	5	80	Conifer	4	1					
								Hardwood							
19	RT	1	HT	0	40	10	90	Conifer	1						
								Hardwood	1						
19	LF	3	HT	0	0	2	90	Conifer							
								Hardwood							
19	LF	1	HT	0	90	5	10	Conifer		1				PSEDOTSUGA	
								Hardwood	1					M. ALNUS R.	
19	LF	2	HT	0	5	2	90	Conifer							
								Hardwood							
38	LF	1	HT	0	65	40	25	Conifer							
								Hardwood	1	4					
38	RT	3	RB	30	0	20	20	Conifer							
								Hardwood							
38	RT	2	HS	20	0	5	85	Conifer							
								Hardwood							
38	RT	1	HT	5	40	45	55	Conifer							
								Hardwood	3						
38	LF	3	HT	0	0	0	95	Conifer							
								Hardwood							
38	LF	2	HT	0	0	0	95	Conifer							
								Hardwood							
53	RT	3	HS	35	10	85	15	Conifer							
								Hardwood	1						
53	LF	1	HT	0	0	35	65	Conifer							
								Hardwood							
53	LF	2	HT	0	0	5	90	Conifer							
								Hardwood							
53	LF	3	HS	30	0	10	80	Conifer							
								Hardwood							
53	RT	1	LT	0	50	40	35	Conifer							
								Hardwood	7						
53	RT	2	HS	35	10	85	15	Conifer							
								Hardwood	1						

# Comment Summary

## Oregon Plan Monitoring Sites 2003

MONITORING AREA: **5-SC**      SITE ID: **170**      **EDSON CREEK UPPER PRE-TX (S-17)**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RI	00	8.4		14 DEG C 14:30	
4	SP	00	27.8	CS		LARGE BOULDERS
6	LP	00	45.9	CS		LARGE BOULDERS
7	SC	00	47.6		.10 DROP	
8	LP	00	62.4	CS		LARGE BOULDERS
9	RI	00	77.5	CS		LARGE BOULDERS
10	LP	00	92.2	CS		LARGE BOULDERS
14	LP	00	111.3	CS		LARGE BOULDERS
16	LP	01	127.2	CS		LARGE BOULDERS
18	RP	00	149.5	CS		LARGE BOULDERS
19	LP	00	154.8	CS		LARGE BOULDERS
20	SC	00	161.1			BEDROCK= HARDPAN
21	LP	00	176.1		LIVE TREE XING	
25	LP	00	203.4	CS		BEDROCK= HARDPAN
28	SC	00	215.9			BEDROCK= HARDPAN
31	LP	00	241.5	CS		BEDROCK= HARDPAN
32	SS	00	244	CS	H=.3	
33	DP	00	250.3	CS		
34	SS	00	250.4		H=0.85	BEDROCK=HARDPAN
35	CC	00	255.4	CC	W X H=2 X 1M	PRIVATE ROAD
36	SC	00	257.6	CC		

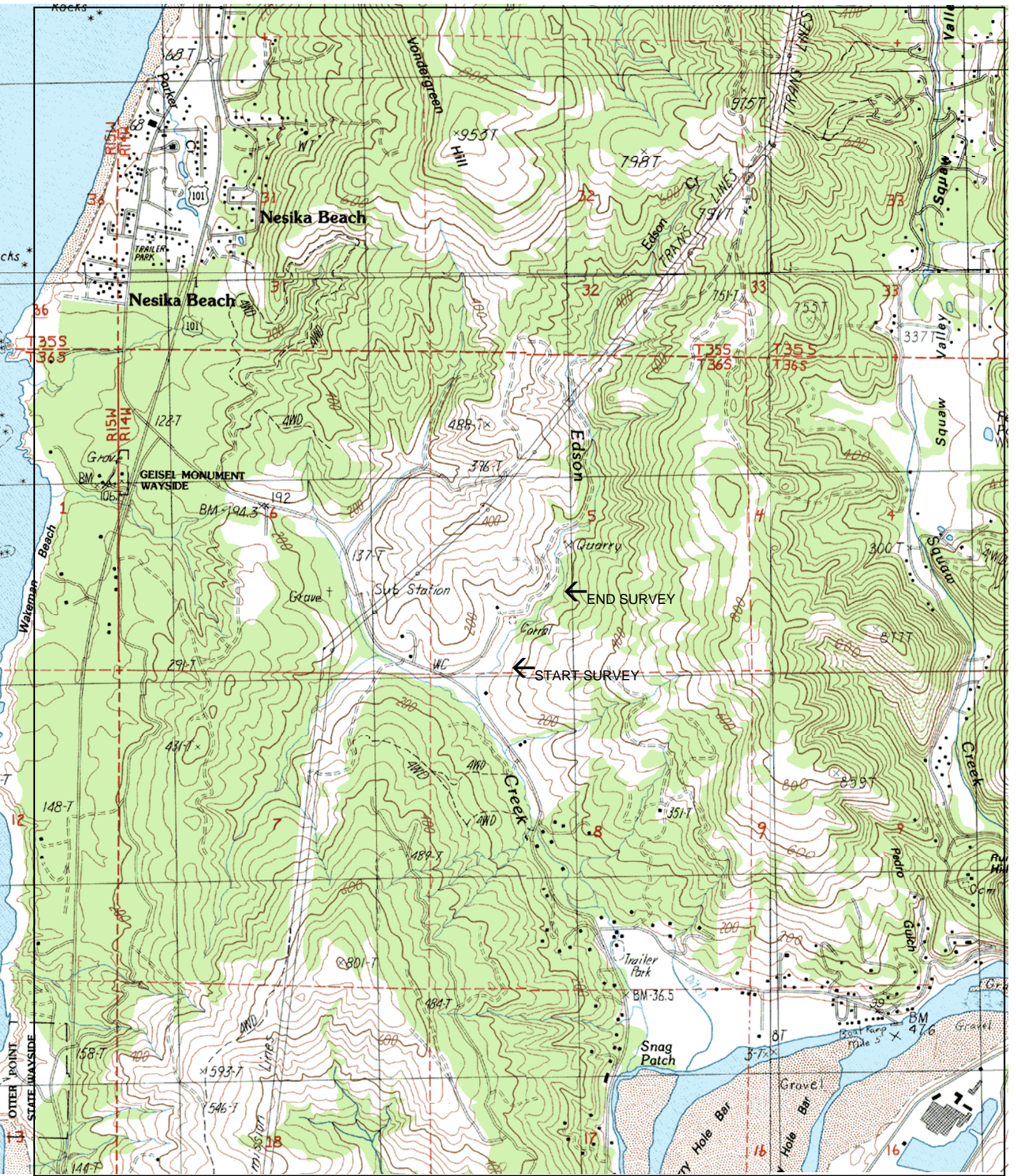


# Comment Summary

## Oregon Plan Monitoring Sites 2003

MONITORING AREA: 5-SC SITE ID: 170 EDSON CREEK UPPER PRE-TX (S-17)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
37	LP	00	262.3		CT	
41	LP	00	277.4			BEDROCK= HARDPAN
49	GL	00	353	SD/		UNKNOWN CAP; ENCASED I
62	RI	00	462.35		17 DEG C @ 5:40	
65	LP	00	505.3		END SURVEY	END



Name: GOLD BEACH  
 Date: 1/21/2004  
 Scale: 1 inch equals 2000 feet

Location: 10 385738 E 4704423 N  
 Caption: EDSON CREEK UPPER RESTORATION SITE - ROGUE BASIN