

**ODFW AQUATIC INVENTORY PROJECT
RESTORATION MONITORING
STREAM HABITAT REPORT**

STREAM: EDSON CREEK LOWER
 GCG: 5-SC
 SITE ID: 135
 BASIN: ROGUE
 TREATMENT DATE: 2002
 SURVEY DATE: 3/31/2009
 SURVEY CREW: David Jones / Ryan Emig
 USGS MAPS: GOLD BEACH
 ECOREGION: Coastal Uplands
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

REACH: 1 LOCATION: T36S-R14W-S08NW

SURVEY DESCRIPTION:

Channel morphology: Constrained by high terraces

Dominant landuse(s): Rural residential

Dominant riparian vegetation: Shrubs (willow, salmonberry, some small alder)

Primary channel length (meters) and area (m²): 494 : 2,267

Secondary channel length (meters) and area (m²): 41 : 41

VWI average: 17.6 VWI Range: 9 - 20 Average Gradient: 0.7%

Pieces LWD per 100m: 8.1 Wood Volume (m³) per 100m: 36.4

Percent pools: 65% Complex pools (LWD pieces \geq 3): 4 Pools \geq 1m deep:8

<u>Percent substrate (avg):</u>	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	9	26	63	1	0	0
Pool units	12	30	58	0	1	0
Fast water units	5	14	78	2	0	0

SURVEY COMMENTS:

The Edson Creek habitat survey is a post-treatment, long term monitoring site. The crew noted habitat structures throughout the survey. Beaver activity was noted near the end of the survey. There were no potential barriers to upstream fish migration observed within the survey reach. A previous post-treatment habitat survey was conducted during the winter of 2003. Comparisons were made among key coho salmon habitat attributes: total secondary channel length, pieces of LWD per 100 m, wood volume per 100 m, percent pools, and complex pools. All key attributes increased significantly except pieces of LWD, which showed a slight decrease.

Survey Date: 3/31/2009

Report Date: 2/16/2010

T36S-R14W-S08NW

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	17.6	VWI Range:	9 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	494	2,267	0
Secondary	41	41	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 4.0	Width: 4.3	6.0 (4.5 - 7.85)	8.5 (6.2 - 10)
Depth: 0.56	Height: 0.4	0.7 (0.6 - 0.8)	1.7 (1.25 - 2.3)

W:D ratio: 12.2

Stream Flow Type: MF

Average Unit Gradient: 0.7%

Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 1.4

Habitat Units/100m (total channel length): 7.7

Habitat Units/100m (primary channel length): 8.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	ST
Riparian Vegetation:	S	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):	40	8.1
Volume (m ³):	180	36.4
Key pieces (>=12m x 0.60m):	14	2.8

OREGON DEPT OF FISH AND WILDLIFE

EDSON CREEK LOWER

HABITAT INVENTORY

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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	10	1.0	0.15	10	0	10	5	70	15	0	0
CULVERT CROSSING	1	18	0.4	0.05	6	0	20	40	40	0	0	0
POOL-BACKWATER	1	6	3.0	1.00	18	0	10	50	40	0	0	0
POOL-LATERAL SCOUR	18	276	4.6	0.84	1,417	0	12	29	59	0	1	0
POOL-PLUNGE	2	15	6.9	0.95	93	0	10	39	51	0	0	0
PUDDLED UNIT	1	7	1.0	0.40	7	0	5	53	42	0	0	0
RIFFLE	14	201	3.7	0.30	749	0	5	15	79	1	0	0
STEP/LOG	2	2	5.3	0.13	8	0	13	36	52	0	0	0
STEP/STRUCTURE	1	1	0.2	0.07	0	0	20	40	40	0	0	0
Total:	41	534	4.0	0.56	2,308	0	Avg: 9	26	63	1	0	0

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	1	6	3.0	1.00	18	0.78%	0	0.0
Scour Pools	20	290	4.8	0.85	1,510	65.43%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	14	201	3.7	0.30	749	32.43%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	1	10	1.0	0.15	10	0.43%	0	0.0
Step/Falls	3	3	3.6	0.11	8	0.36%	0	0.0
Dry	1	7	1.0	0.40	7	0.30%	0	0.0
Culverts	1	18	0.4	0.05	6	0.27%	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:	21	39.3	42.5
Pools >=1m deep:	8	15.0	16.2
Complex pools (LWD pieces>=3):	4	7.5	8.1
Pool frequency (channel widths/pool):	5.9		
Residual pool depth (avg):	0.61		

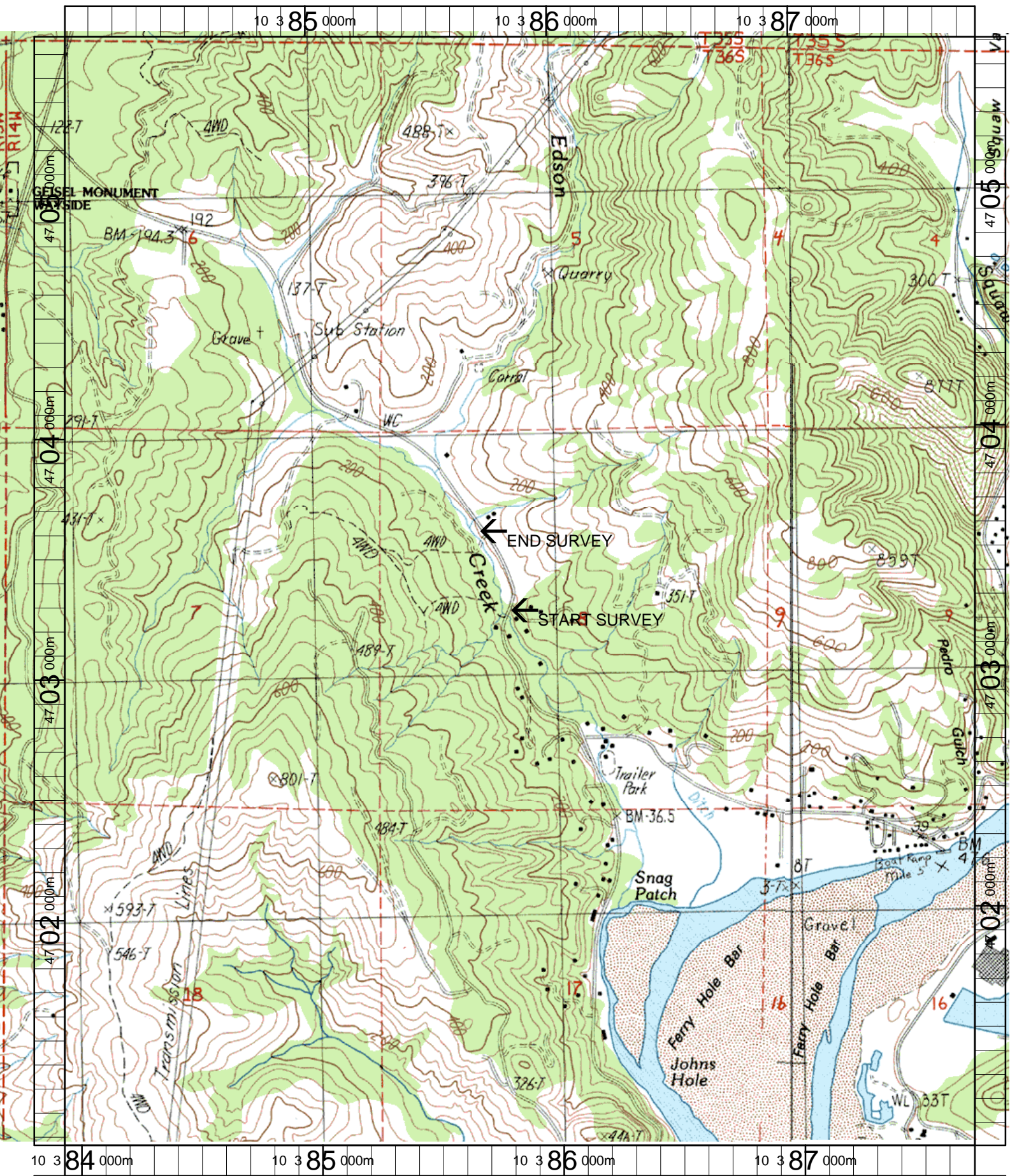
OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 3/31/2009

COMMENT SUMMARY

MONITORING AREA: 5-SC SITE ID: 135 STREAM: EDSON CREEK LOWER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	RI	01	19	TJ/	
1	2	CB	11	19		T=9.5C, ACW=1.4M, NO BOULDERS
1	11	LP	00	133.6	HS,/SS	
1	12	RI	00	139.6		VWI IS APPROX 25
1	19	RI	00	240.1	HS	
1	20	LP	00	253.1	HS	
1	22	LP	00	273.6	HS	
1	23	RI	00	291.6	HS	
1	26	LP	00	317.1	HS	
1	28	LP	00	333.1	DJ,HS	
1	29	RI	00	375.1	HS	VWI IS 20
1	32	LP	00	413.6	BV	
1	33	LP	00	424.6	SS/	
1	38	RI	00	473.1		VWI = 25
1	39	LP	00	492.6	BV	CS BOULDERS IN POOL
1	40	SS	00	493.6	TJ	
1	41	CC	10	493.6	TJ,CC	CC=0.5M ROUND PLASTIC PIPE UNDER EDSON CR RD



Name: GOLD BEACH
 Date: 3/21/2003
 Scale: 1 inch equals 1666 feet

Location: 10 385849 E 4703343 N
 Caption: EDSON CREEK LOWER RESTORATION SITE - ROGUE BASIN

Edson Creek Lower (SC-135) 2009 Winter Habitat Survey Photographs



Downstream view of county bridge near start of survey.
Edson Creek Road crosses here.



Upstream view of riparian area.



Downstream view of placed log habitat structure.



Upstream view of reach with large wood placement in background.



Downstream view of large wood placement.



View of right bank tributary at the end of the survey.