

**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: 7/28/2008
 SURVEY CREW: Drew Harper / Frank Drake
 USGS MAPS: GOLD BEACH
 ECOREGION: Coastal Uplands
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

SURVEY DESCRIPTION:

Channel morphology: Constrained by high terraces
 Dominant landuse(s): Second growth timber (15-30 cm dbh)
 Dominant riparian vegetation: Mixed conifer/deciduous: size class 15-30cm dbh
 Primary channel length (meters) and area (m²): 513 : 1,407
 Secondary channel length (meters) and area (m²) 32 : 44
 VWI average: 18.0 VWI Range: 10 - 20 Average Gradient: 0.5%
 Pieces LWD per 100m: 10.3 Wood Volume (m³) per 100m: 21.8
 Percent pools: 80% Complex pools (LWD pieces>=3): 5 Pools >=1m deep: 1

Percent substrate (avg):	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	28	25	46	1	0	0
Pool units	31	28	40	1	0	0
Fast water units	8	25	66	1	0	0

COMMENTS:

This is a post-treatment, long term monitoring site. The crew noted multiple debris jams near the start of the survey. The also noted observing a sculpin. Evidence of amphibians included a rough-skinned newt and a yellow-legged frog.

**OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY**

**EDSON CREEK LOWER
GCG: 5-SC SITE ID: 135**

Survey Date: 7/28/2008

Report Date: 12/29/2008

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	18.0	VWI Range:	10 - 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	513	1,407	0
Secondary	32	44	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 2.3	Width: 3.7	4.2 (3.2 - 5.1)	6.4 (5.1 - 7.8)
Depth: 0.32	Height: 0.3	0.6 (0.5 - 0.7)	2.0 (1.8 - 2.4)

W:D ratio: 11.3

Stream Flow Type: LF

Average Unit Gradient: 0.5%

Water temperature (°C): 15.0 - 15.0

Entrenchment (ACW:FPW ratio): 1.2

Habitat Units/100m (total channel length): 8.6

Habitat Units/100m (primary channel length): 9.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	RR
Riparian Vegetation:	M15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	4%	Reach avg: 66%
Undercut Banks:	9%	Range: 25 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	53	10.3
Volume (m ³):	112	21.8
Key pieces (>=12m x 0.60m):	5	1.0

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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
DRY UNIT	1	10	0.9	0.00	9	0	100	0	0	0	0	0
GLIDE	1	15	2.0	0.10	30	0	50	20	30	0	0	0
POOL-BACKWATER	4	14	1.4	0.14	19	0	73	6	21	0	0	0
POOL-LATERAL SCOUR	25	360	3.1	0.53	1,162	3	31	28	40	1	0	0
RIFFLE	15	144	1.5	0.08	228	0	8	25	66	1	0	0
STEP/LOG	1	2	1.1	0.01	2	0	0	40	60	0	0	0
Total:	47	545	2.3	0.32	1,451	3	Avg: 28	25	46	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	4	14	1.4	0.14	19	1.34%	0	0.0
Scour Pools	25	360	3.1	0.53	1,162	80.10%	3	0.3
Glides	1	15	2.0	0.10	30	2.07%	0	0.0
Riffles	15	144	1.5	0.08	228	15.75%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	1	2	1.1	0.01	2	0.16%	0	0.0
Dry	1	10	0.9	0.00	9	0.59%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	29	53.2	56.5
Pools >=1m deep:	1	1.8	1.9
Complex pools (LWD pieces>=3):	5	9.2	9.7
Pool frequency (channel widths/pool):	5.1		
Residual pool depth (avg):	0.50		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

EDSON CREEK LOWER
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Survey Date 7/28/2008

RIPARIAN ZONE

Report Date: 12/29/2008

VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	691
Total conifers/1000 ft	447
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	5.0	0.3	4.7	0.7	1.0	1.0	10.7
15-30cm	0.0	0.0	3.3	0.0	2.3	0.3	5.7	0.3
30-50cm	0.0	0.3	0.7	0.0	0.0	0.0	0.7	0.3
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	0.0	5.3	4.3	4.7	3.0	1.3	2.4	3.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	59		60		49	
Shrub cover	67		55		38	
Grass/forb cover	33		40		42	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	100		100		83	
Low terrace	0		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 (%)	0		0		0	

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	691
Total conifers/1000 ft	447
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	1.0	10.7
15-30cm	5.7	0.3
30-50cm	0.7	0.3
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

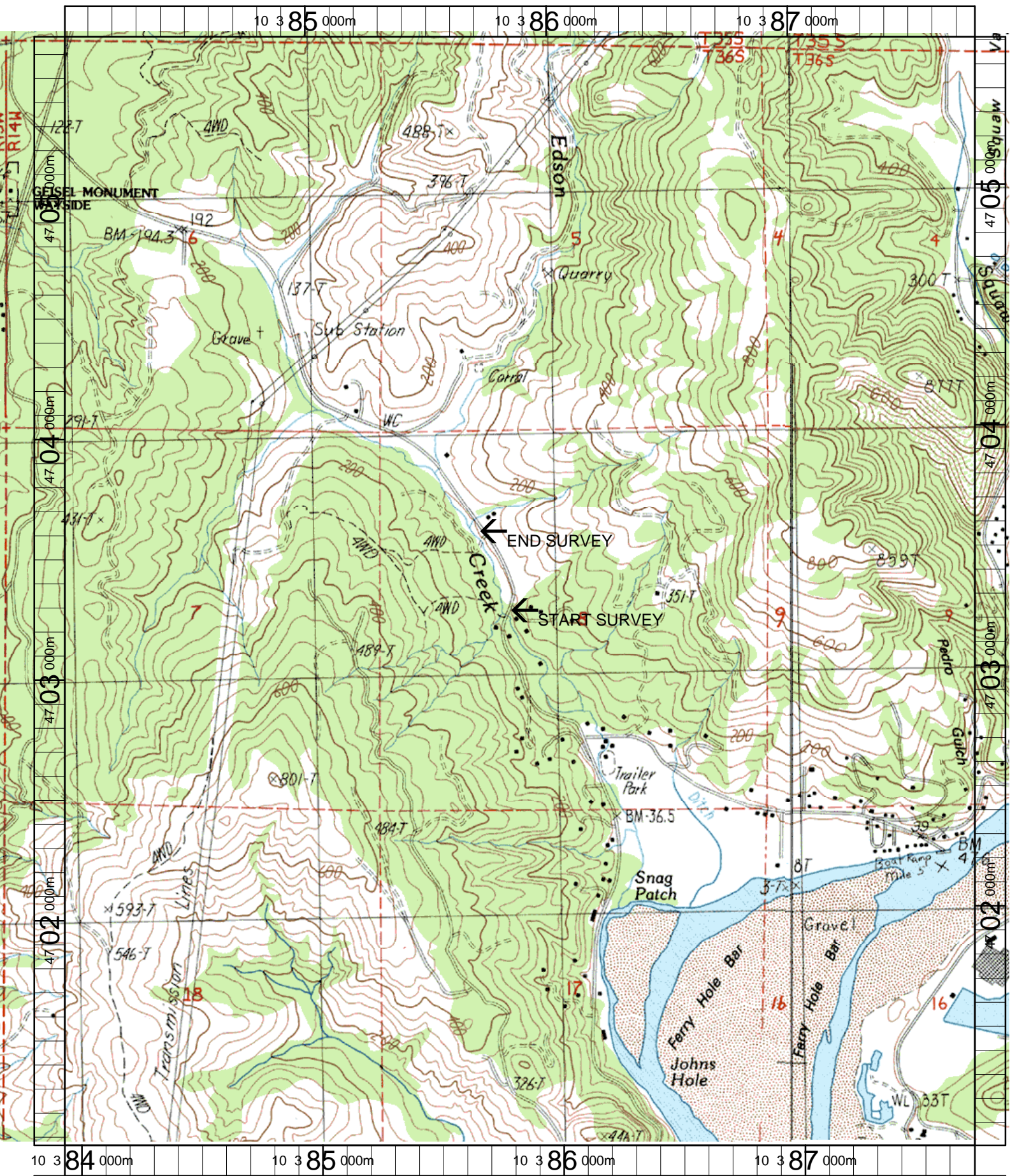
Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
11	LT	1	HT	0	85	90	10	Conifer							
								Hardwood	1		1				
11	LT	2	HT	0	75	75	25	Conifer							
								Hardwood	1						
11	LT	3	HT	0	75	80	20	Conifer							
								Hardwood							
11	RT	1	HT	0	10	5	95	Conifer							
								Hardwood							
11	RT	2	HT	0	10	10	90	Conifer							
								Hardwood							
11	RT	3	RB	0	0	0	0	Conifer							
								Hardwood							
22	LT	1	HT	0	90	100	0	Conifer							
								Hardwood	7						
22	LT	2	HT	0	60	90	10	Conifer							
								Hardwood							
22	LT	3	HT	0	55	80	20	Conifer	2		1				
								Hardwood							
22	RT	1	HT	0	65	90	10	Conifer							
								Hardwood	5						
22	RT	2	HT	0	60	65	35	Conifer							
								Hardwood	9						
22	RT	3	HT	0	10	20	80	Conifer							
								Hardwood							
33	LT	1	HT	0	60	95	5	Conifer							
								Hardwood							
33	LT	2	HT	0	60	80	20	Conifer							
								Hardwood	4						
33	LT	3	HT	0	70	40	50	Conifer							
								Hardwood			1				
33	RT	1	HT	0	45	20	80	Conifer							
								Hardwood	2						
33	RT	2	HT	0	95	10	60	Conifer	1		10		2		
								Hardwood							
33	RT	3	HT	0	85	5	80	Conifer				6			
								Hardwood	3						

COMMENT SUMMARY

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	29	AM	PHOTO 0020
5	SL	00	46.9	DJ	H=0.70M
7	LP	01	81.6	/TJ	
18	LP	00	229.1	DJ	
23	LP	00	272.5	DJ	
27	LP	00	320.5	AM	ROUGH-SKINNED NEWT
34	RI	00	410.2		SCULPIN N=1
35	LP	01	440.1	AM	YELLOW-LEGGED FROG
37	BW	10	440.1		2 BW'S FOUND WITHIN UNIT 35
39	RI	01	449.6	/TJ	
47	LP	00	513.2	/CE	STEP H=0.55M, DIA=0.6M, SLOPE=1.75



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