

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

STREAM: Haney Creek (U-142)
BASIN: Smith River
SURVEY TYPE: Post-Tx
DATE: July 7, 2003
SURVEY CREW: Jeremiah Bernier, Alex Higgins
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 12.7 km²
USGS MAPS: Gunter
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Haney Creek habitat survey extended 536 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 11.2 (range: 9.0-13.0). Land use for the reach was second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (77%) dominated stream habitat. Gravel (56%) and sand (31%) dominated stream substrate. Wood volume was low at 9.2 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.

REACH 1

T20S-R07W-S26NW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index 11.2		VWI Range: 9 - 13	

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 (m ²)	Dry Units
Primary	536	2,645	0
Secondary	27	68	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.4	Width	9.8	18.3	
Depth	0.52	Height	0.6	1.2	
		W:D ratio	16.5	Entrenchment	1.9
Stream Flow Type:	MF	Water temp (C): 14.0 - 14.0			
Avg. Unit Gradient:	0.8%	Habitat Units/100m: 6.2			

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	D3	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:	7%	Reach avg: 83%
Undercut Banks:	22%	Range: 64 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	89	16.6
Volume (m ³):	49	9.2
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

HANEY CREEK POST-TX (U-142)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

7/7/03

REACH 1		T20S-R07W-S26NW					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	
POOL-ISOLATED	3	27	2.7	0.63	68	0	35	53	12	0	0	0	
POOL-LATERAL SCOUR	18	378	5.3	0.74	2,101	18	7	39	49	3	1	1	
RIFFLE	3	60	2.8	0.15	163	3	0	17	63	18	2	0	
RIFFLE W/ POCKETS	3	51	2.9	0.30	147	8	0	20	59	17	5	0	
STEP/COBBLE	8	48	4.4	0.21	234	1	0	12	83	5	1	0	
Total:	35	563	4.4	0.52	2,713	30	Avg 6	31	56	6	1	1	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		27
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	3	27	2.7	0.63	68	2.51%	0	0.0	
Scour Pools	18	378	5.3	0.74	2,101	77.44%	18	0.9	
Glides	0	0			0	0.00%	0	0.0	
Riffles	6	110	2.9	0.23	310	11.43%	11	3.5	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	8	48	4.4	0.21	234	8.62%	1	0.4	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	Total	# / Km
All Pools:	21	37.3
Pools >=1m deep:	2	3.6
Complex pools (LWD pieces>=3):	9	16.0
Pool frequency (channel widths/pool):	2.7	
Residual pool depth (avg):	0.63	

STREAM SUMMARY

HANEY CREEK POST-TX (U-142)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Large Boulders (>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
35	563	4.4	0.52	2,713	6	31	56	6	1	1	30

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	68	2.51%
Scour Pools	2,101	77.44%
Glides	0	0.00%
Riffles	310	11.43%
Rapids	0	0.00%
Cascades	0	0.00%
Step/Falls	234	8.62%
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	589
Total conifers/1000 ft	20
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	0.3	0.3	0.7	0.0	0.3	0.3	1.3
15-30cm	0.0	1.0	0.0	1.3	0.0	2.7	0.0	5.0
30-50cm	0.0	1.0	0.0	1.0	0.0	1.0	0.0	3.0
50-90cm	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	2.3	0.3	3.3	0.0	4.0	0.1	3.2

Canopy closure and ground cover

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Canopy closure	68	61	69
Shrub cover	66	48	39
Grass/forb cover	14	23	32

Predominant landform in each zone

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Hillslope	17	33	33
High terrace	0	17	17
Low terrace	83	50	50
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 (%)	4	9	12

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	589
Total conifers/1000 ft	20
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

<u>Diameter class (cm)</u>	<u>Zones 1-3</u>	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.3	1.3
15-30cm	0.0	5.0
30-50cm	0.0	3.0
50-90cm	0.0	0.3
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

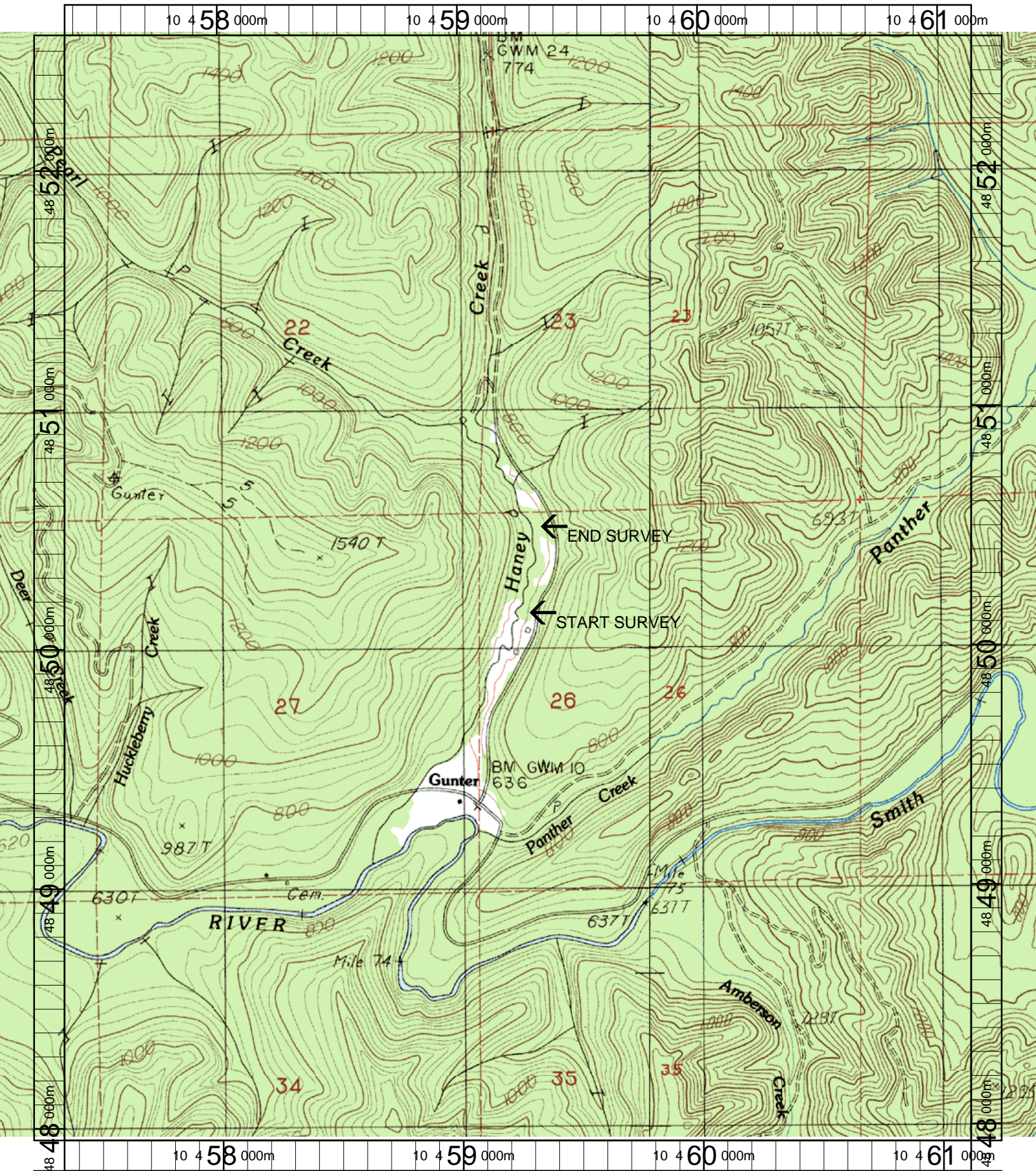
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	LF	1	LT	0	55	70	10	Conifer							
								Hardwood			1				
9	LF	2	HS	35	75	0	55	Conifer							
								Hardwood							
9	LF	3	HS	40	75	0	60	Conifer							
								Hardwood		1					
9	RT	1	LT	0	75	95	5	Conifer							
								Hardwood	1	1	1				
9	RT	2	LT	0	85	50	20	Conifer							
								Hardwood							
9	RT	3	LT	0	60	60	40	Conifer							CREEK BED
								Hardwood							RAPS
															AROUND
18	LF	1	LT	0	70	70	10	Conifer							
								Hardwood		1					
18	LF	2	LT	0	75	60	20	Conifer							
								Hardwood			2				
18	LF	3	LT	0	75	70	10	Conifer							
								Hardwood		1	1				
18	RT	1	LT	0	80	70	20	Conifer							
								Hardwood							
18	RT	2	HT	0	0	100	0	Conifer							
								Hardwood							
18	RT	3	HT	0	80	15	50	Conifer							
								Hardwood		1					
24	RT	1	LT	0	50	80	10	Conifer							
								Hardwood							
24	RT	2	LT	0	70	80	15	Conifer	1						
								Hardwood		3	1				
24	LF	1	HS	25	80	10	30	Conifer							
								Hardwood		1	1				
24	LF	2	HS	20	60	0	30	Conifer							
								Hardwood	2	1		1			
24	RT	3	LT	0	60	80	10	Conifer							
								Hardwood	1	1	2				
24	LF	3	HS	32	65	10	20	Conifer							
								Hardwood		4					

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: **4-UMP** SITE ID: **142** HANEY CREEK POST-TX (U-142)

<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	LP	00	5.9	HS	T=14	BOULDERS
2	SC	00	12.2	HS		
3	LP	00	32.4	HS	SALMONID FRY/CUTT	PINK FLAG-POOL 12
4	RI	00	44.4	HS		ORANGE=3 BOULDERS-INDE
5	LP	00	64.5		SALMONID FRY (SF)	
8	RP	00	101.3	HS		3 BOULDERS OUTSIDE W/ C
9	LP	01	129.8	HS		
10	IP	10	129.8		NEWTS	
13	LP	00	170.1	HS		
15	LP	00	189	HS	SF, SCULPIN, NEWT	
17	RP	00	238.4	HS		ORANGEFLAG-3 BOULDERS
18	LP	00	256.7			PINK FLAG- POOL 15
24	LP	01	376.4			PINK FLAG-POOL 16
25	IP	10	376.4			FRY
26	SC	00	378.9			RIP 3
28	LP	00	437.1	DJ		
30	LP	00	482.3			PINK FLAG POOL 17
33	IP	10	497.3			FRY/COHO
35	SC	00	535.6			END, START CLEARCUT ON



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

Location: 10 459235 E 4850251 N
Caption: HANEY CREEK RESTORATION SITE - SMITH BASIN