

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

STREAM: HANEY CREEK
 GCG: 4-UMP
 SITE ID: 142
 BASIN: SMITH
 TREATMENT DATE: 2001
 SURVEY DATE: 8/1/2011
 SURVEY CREW: Eric Bailey and Sara DeRischebourg
 USGS MAPS: GUNTER
 ECOREGION: Mid-Coastal Sedimentary
 REPORT PREPARED BY: Lora Tennant

REACH: 1 LOCATION: T20S-R07W-S26NW

SURVEY DESCRIPTION:

Channel morphology: Constrained alternately by high terraces and hillslopes

Dominant landuse(s): Large timber (30-50 cm dbh)

Dominant riparian vegetation: Deciduous trees: size class 3-15cm dbh

Primary channel length (meters) and area (m²): 568 : 2,292

Secondary channel length (meters) and area (m²) 89 : 205

VWI average: 10.2 VWI Range: 10 - 11 Average Gradient: 0.9%

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

Percent pools: 76% Complex pools (LWD pieces \geq 3): 0 Pools \geq 1m deep: 6

<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	29	16	55	0	0	0
Pool units	30	21	49	1	0	0
Fast water units	9	13	78	0	0	0

SURVEY COMMENTS:

This is a post-treatment (boulders) restoration survey. The crew observed juvenile salmonids, beaver activity, and a rough-skinned newt.

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

**HANEY CREEK
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Survey Date: 8/1/2011

Report Date: 8/3/2012

T20S-R07W-S26NW

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	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	10.2	VWI Range:	10 - 11

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	568	2,292	1
Secondary	89	205	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 3.2	Width: 8.9	14.1 (9.9 - 18.7)	19.6 (14.3 - 26.1)
Depth: 0.43	Height: 0.5	0.9 (0.8 - 1.2)	1.4 (0.9 - 1.9)

W:D ratio: 19.6

Stream Flow Type: LF

Average Unit Gradient: 0.9%

Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.6

Habitat Units/100m (total channel length): 7.5

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

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	25%	Reach avg: 89%
Undercut Banks:	18%	Range: 72 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	91	16.0
Volume (m ³):	87	15.3
Key pieces (>=12m x 0.60m):	0	0.0

HABITAT INVENTORY

GCG: 4-UMP SITE ID: 142

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Report Date: 6/8/2012

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
DRY UNIT	1	4	4.5	0.00	18	0	0	0	100	0	0	0
POOL-BACKWATER	4	27	1.3	0.20	35	1	53	18	30	0	0	0
POOL-DAMMED	1	30	6.3	1.70	190	0	50	25	25	0	0	0
POOL-ISOLATED	4	40	2.6	0.53	144	0	90	7	2	0	0	0
POOL-LATERAL SCOUR	18	405	4.2	0.73	1,711	10	28	21	50	1	0	0
PUDDLED UNIT	2	22	1.0	0.10	25	0	83	15	3	0	0	0
RIFFLE	7	57	2.4	0.12	132	3	1	14	86	0	0	0
RIFFLE W/ POCKETS	4	52	3.4	0.28	174	0	23	12	63	1	0	0
STEP/COBBLE	7	18	2.5	0.06	44	0	0	5	95	0	0	0
STEP/LOG	1	3	8.0	1.00	24	0	15	80	5	0	0	0
Total:	49	657	3.2	0.43	2,497	14	Avg: 29	16	55	0	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	9	98	2.4	0.51	369	14.79%	1	0.3
Scour Pools	18	405	4.2	0.73	1,711	68.52%	10	0.6
Glides	0	0			0	0.00%	0	0.0
Riffles	11	109	2.7	0.18	306	12.24%	3	1.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	8	21	3.2	0.18	68	2.73%	0	0.0
Dry	3	26	2.2	0.07	43	1.72%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

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REACH 1

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	27	41.1	47.5
Pools >=1m deep:	6	9.1	10.6
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	2.7		
Residual pool depth (avg):	0.69		

Survey Date 7/28/2011

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

Report Date: 6/8/2012

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

Total hardwoods/1000	1321
Total conifers/1000 ft	203
Total conifers >20" dbh/1000 f	41
Total conifers >35" dbh/1000 f	20

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	1.0	0.0	2.7	0.3	4.7	0.7	8.3
15-30cm	1.0	1.7	0.0	1.0	0.3	2.3	1.3	5.0
30-50cm	0.7	2.0	0.0	2.3	0.0	2.0	0.7	6.3
50-90cm	0.3	1.3	0.0	0.7	0.0	0.0	0.3	2.0
>90cm	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Total/100m2	2.7	6.0	0.0	6.7	0.7	9.0	1.1	7.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	65		78		59	
Shrub cover	41		45		30	
Grass/forb cover	59		55		70	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		33	
High terrace	100		100		67	
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 (%)	0		0		20	

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	1321
Total conifers/1000 ft	203
Total conifers >20" dbh/1000 f	41
Total conifers >35" dbh/1000 f	20

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	0.7	8.3
15-30cm	1.3	5.0
30-50cm	0.7	6.3
50-90cm	0.3	2.0
>90cm	0.3	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		
12	LF	1	HT	0	0	15	85	Conifer					1	1	TRANSITION SLOPE=15
								Hardwood			1		2		
12	LF	2	HT	0	80	15	85	Conifer							WL-TRAIL
								Hardwood		1	4				
12	LF	3	HS	29	80	10	90	Conifer	1	1					WL-TRAIL
								Hardwood	2		1				
12	RT	1	HT	0	85	60	40	Conifer	1	3	2				TRANSITION SLOPE=45
								Hardwood							
12	RT	2	HT	0	90	70	30	Conifer							
								Hardwood	5	1	2		1		
12	RT	3	HT	0	75	80	20	Conifer							
								Hardwood		5	3				
31	LF	1	HT	0	80	30	70	Conifer							
								Hardwood	3		1				
31	LF	2	HT	0	60	35	65	Conifer							
								Hardwood	1						
31	LF	3	HT	0	60	40	60	Conifer							
								Hardwood	8						
31	RT	1	HT	0	85	30	70	Conifer							TRANSITION SLOPE=11
								Hardwood		1	2				
31	RT	2	HT	0	85	10	90	Conifer							
								Hardwood					1		
31	RT	3	HT	0	5	5	95	Conifer							
								Hardwood							
38	LF	1	HT	0	60	50	50	Conifer							TRANSITION SLOPE=11
								Hardwood		3	1		1		
38	LF	2	HT	0	70	80	20	Conifer							BENCHMARK
								Hardwood		1	1				
38	LF	3	HS	93	75	5	95	Conifer							
								Hardwood		2	2				
38	RT	1	HT	0	80	60	40	Conifer							TRANSITION SLOPE=11
								Hardwood		1	1		1		
38	RT	2	HT	0	80	60	40	Conifer							BEAVER DEN
								Hardwood	2						
38	RT	3	HT	0	60	40	60	Conifer							
								Hardwood	4						

OREGON DEPT OF FISH AND WILDLIFE
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OREGON PLAN MONITORING SITE
SURVEY DATE: 8/1/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 142 STREAM: HANEY CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	RI	00	7	WL	459166/4850380
1	2	LP	01	32.3		CA/MT D30/S LT/ST
1	5	LP	00	60.1		
1	12	SC	00	108.7		459161/4850489
1	13	LP	01	136.7		CA/MT D30/S LT/ST
1	16	PD	02	144.7		DRY CHANNEL ACW=2.5
1	19	BW	10	165.3	HS	
1	20	LP	00	201.1	AM	
1	22	LP	01	212.4		
1	23	PD	02	212.4		DRY CHANNEL ACW=2.5
1	24	DU	00	216.4		ACW=3.6
1	25	LP	00	224.2		

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OREGON PLAN MONITORING SITE
SURVEY DATE: 8/1/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 142 STREAM: HANEY CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	31	LP	00	305.7		459233/4850511
1	32	RI	00	309.7		CA/MT D30/S LT/ST
1	34	RP	00	345.3		
1	35	LP	01	402.8		JV FISH
1	36	IP	10	402.8		JV FISH
1	37	SL	00	405.8	HS,DJ	DEBRIS
1	38	DP	00	435.9	HS,DJ	459210/4850627
1	40	LP	00	473.9	DJ,BV	
1	42	LP	01	485.4	/BW	
1	45	LP	00	509.9	BV	
1	47	LP	01	554.6		
1	48	IP	10	554.6	AM	CA/MT D30/S LT/ST

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 142 STREAM: HANEY CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	49	RP	00	568.1		459170/4850724