

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

STREAM: Haight Creek (MC-224)
BASIN: Siuslaw River
SURVEY TYPE: Pre-Tx
DATE: March 8, 2004
SURVEY CREW: April Waters, Jim Andrews
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 8.5 km²
USGS MAPS: Beaver Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Haight Creek habitat survey extended 2,412 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 17.6 (range: 10.5-23.0). Land use for the reach was large (30-50 cm dbh) and mature (50-90 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (60%) and riffles (33%) dominated stream habitat. Gravel (38%) and sand (24%) dominated stream substrate. Wood volume was low at 16.9 m³/100m.

COMMENTS:

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

The crew noted several debris jams during the survey.

REACH 1

T19S-R07W-S35SE

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:	10.5 - 23

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	2,412	10,654	0
Secondary	194	530	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 8
Width: 3.8	Width: 5.7	6.8 (4.9 - 9.4)	7.6 (6.2 - 9.9)
Depth: 0.40	Height: 0.3	0.6 (0.5 - 0.7)	1.0 (0.75 - 1.2)

W:D ratio: 19.1

Stream Flow Type: MF

Avg. Unit Gradient: 0.8%

Entrenchment (ACW:FPW ratio): 1.2

Water temp (°C): 10.8 - 10.8

Habitat Units/100m: 7.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	MT
Riparian Vegetation:	D30	S

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</u>
All pieces (>=3m x 0.15m):	449	18.6
Volume (m ³):	407	16.9
Key pieces (>=10m x 0.60m):	22	0.9

OREGON DEPARTMENT OF FISH AND WILDLIFE

HAIGHT CREEK PRE-TX (MC-224)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/8/2004

REACH 1

T19S-R07W-S35SE

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
CASCADE/BOULDERS	2	7	0.9	0.05	6	0	8	14	3	29	13	34
CULVERT CROSSING	1	13	3.0	0.50	39	0	10	30	60	0	0	0
POOL-ALCOVE	1	30	8.0	0.40	240	0	70	30	0	0	0	0
POOL-BACKWATER	6	30	2.4	0.32	61	0	31	28	20	3	2	16
POOL-DAMMED	3	29	3.3	0.70	103	0	12	45	29	3	3	7
POOL-LATERAL SCOUR	96	1,372	4.3	0.59	6,404	0	7	32	29	9	2	21
POOL-PLUNGE	2	32	6.0	1.05	175	0	17	20	29	0	5	30
POOL-STRAIGHT SCOUR	2	36	2.6	0.53	92	0	5	25	29	17	10	15
PUDDLED UNIT	1	4	0.4	0.01	2	0	25	45	10	0	0	20
RAPID/BEDROCK	2	18	2.3	0.15	44	0	0	5	7	0	0	88
RAPID/BOULDERS	10	67	1.8	0.14	162	0	15	5	50	18	3	8
RIFFLE	62	923	3.7	0.19	3,646	0	1	12	53	16	2	15
STEP/COBBLE	8	36	4.7	0.10	185	0	1	6	69	22	2	0
STEP/LOG	6	9	3.5	0.13	26	0	1	57	22	3	0	17
Total:	202	2,605	3.8	0.40	11,185	0	Avg: 6	24	38	12	2	18

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	10	89	3.2	0.44	404	3.61%	0	0.0
Scour Pools	100	1,440	4.3	0.60	6,672	59.65%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	62	923	3.7	0.19	3,646	32.59%	0	0.0
Rapids	12	85	1.9	0.14	206	1.85%	0	0.0
Cascades	2	7	0.9	0.05	6	0.05%	0	0.0
Step/Falls	14	45	4.2	0.11	211	1.88%	0	0.0
Dry	1	4	0.4	0.01	2	0.01%	0	0.0
Culverts	1	13	3.0	0.50	39	0.35%	0	0.0

POOL SUMMARY

	<u>Total</u>	<u># / Km</u>	
All Pools:	110	42.2	194
Pools >=1m deep:	6	2.3	
Complex pools (LWD pieces>=3):	43	16.5	
Pool frequency (channel widths/pool):	4.2		
Residual pool depth (avg):	0.45		

STREAM SUMMARY

HAIGHT CREEK PRE-TX (MC-224)

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	
202	2,605	3.8	0.40	11,185	6	24	38	12	2	18	

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	404	3.61%
Scour Pools	6,672	59.65%
Glides	0	0.00%
Riffles	3,646	32.59%
Rapids	206	1.85%
Cascades	6	0.05%
Step/Falls	211	1.88%
Dry	2	0.01%
Culverts	39	0.35%

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX (MC-224)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	16.7	/TJ	T=10.8C/13:32	
2	RB	11	16.7		T=11.5C	
3	CC	00	29.7	CC	H=2.05M, 3M WIDE	
4	LP	00	36.9	2-SS/		
7	LP	00	75.3	DJ	2M LONG PTC	
11	PP	01	130.1		/CHNL	
14	LP	02	158.9		LEFT CHNL	
23	LP	00	250.4	DJ		
25	LP	00	272.1	DJ	DACE, SG=4	
29	LP	00	321.1		BRK=HARDPAN	
30	RI	01	356.3	SS/, /TJ		
31	RB	11	356.3		T=8.5C/15:00	
35	LP	00	409	SS/		
40	LP	01	467.1		RT SIDE-55% FLOW	
42	RI	02	471.6		LF SIDE	
43	LP	02	471.6	SS/		
46	LP	00	506.5	WL	FISH PARTS	
48	BW	10	539.1		NEWTS	
49	LP	00	565.3	/SS		
50	LP	00	575.6		SG=4M	
54	SC	00	628.6		SITE 549 OR PLAN ODFW	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX (MC-224)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
57	LP	01	662.3		SOME HARDPAN	
61	RI	02	685		BRK=HARDPAN	
63	LP	00	712.4	SS/		
68	LP	00	782	DJ		
69	LP	00	794.2		2M LONG PTC	
70	LP	00	809	LI/, SS/		
73	RI	00	851.5	SS/		
74	LP	00	872.7		SG=4M, HARDPAN	
79	LP	00	958.3		HARDPAN	
80	RI	00	972.4		HARDPAN	
82	LP	01	1004.8		RT CHNL, 60% FLOW	
83	LP	01	1015.2		HARDPAN	
84	LP	01	1027.6		2M LONG PTC	
85	RI	02	1027.6		40% FLOW, LEFT CHNL	
86	LP	02	1027.6	DJ		
88	LP	00	1038.8	DJ	5% HARDPAN	
89	RI	00	1053		HARDPAN	
91	LP	00	1075.9		5% HP	
92	RI	01	1092.1		RT CHNL	
94	RI	01	1102.6		HP	
95	LP	01	1111.8		10% HP	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX (MC-224)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
97	BW	10	1121.6		HP	
98	RI	02	1121.6		LF CHNL	
99	LP	02	1121.6	DJ		
101	LP	01	1161.4	BV, /TJ		
102	RB	11	1161.4		ACW=1.2M, T=8.5C/11:57	
103	LP	00	1177.1		2M LONG PTC	
104	SL	00	1177.7		5" TROUT	
105	LP	00	1188.5	DJ	GETS BRUSHY, 5% HP	
110	LP	01	1249.6		ANIMAL BONES-DEER?	
111	RB	11	1249.6		HP	
115	RI	00	1296.1		REAL BRUSHY	
126	RI	00	1482.7		OLD BV	
129	LP	00	1516.3	SS/		
130	RI	00	1528.5		METRIC AT UPSTREAM E	
131	LP	00	1550	SS/		
136	BW	10	1588.2		AT PTC OF U135	
138	LP	01	1622.8	/TJ		
139	CB	11	1622.8		HP, TRIB	
144	LP	00	1686.3	DJ		
146	LP	01	1726.3	2-/SS	RT CHNL, 1" FISH	
147	PD	02	1726.3		HP	

Comment Summary

Oregon Plan Monitoring Sites 2002

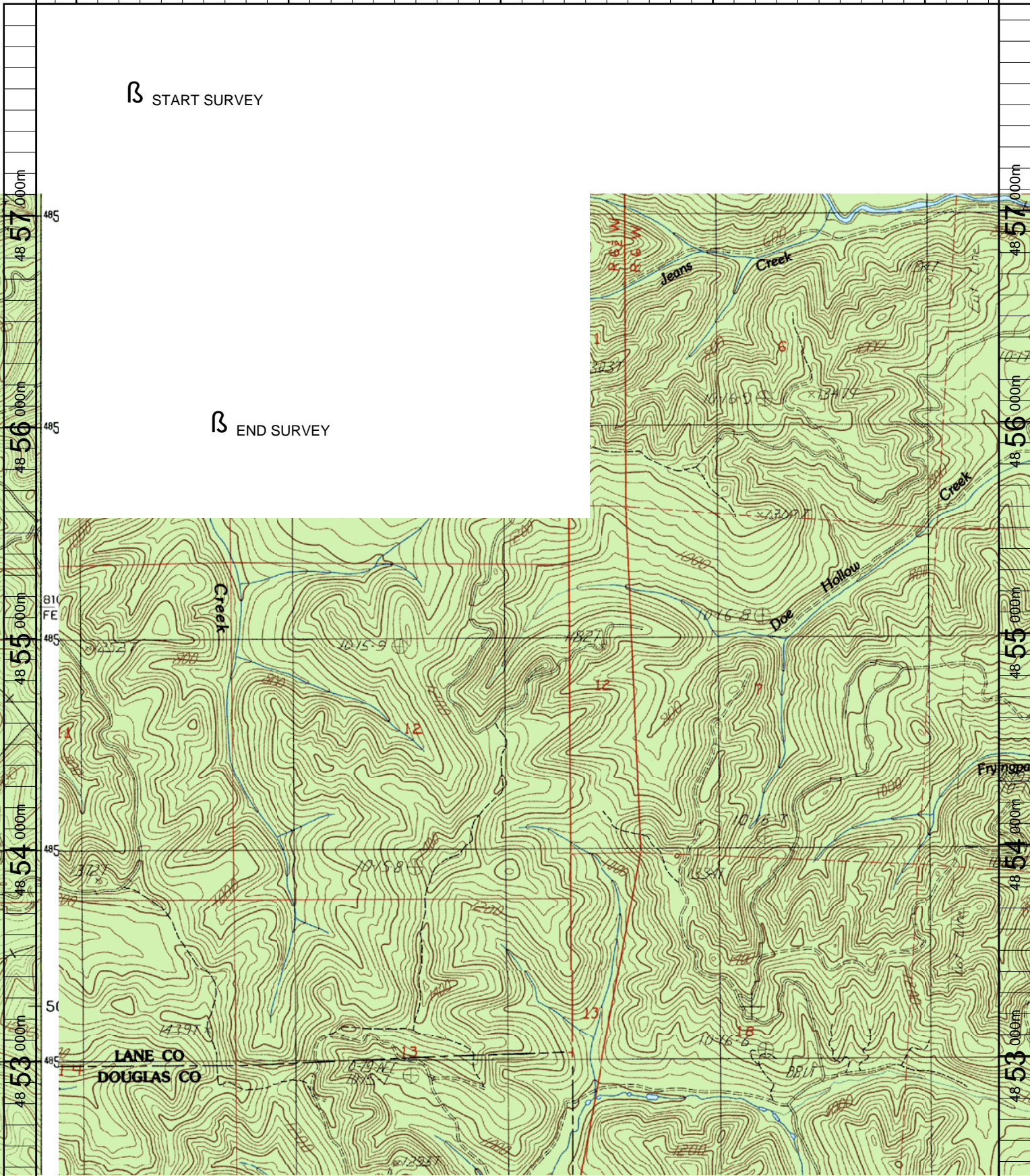
MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX (MC-224)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
151	RI	01	1795.6	TJ/	T=8.2C/0830	
152	RR	11	1795.6		SHITTEN CREEK, T=8C	
154	SL	00	1799.6	DJ		
155	RI	01	1805.9		1" FISH	
160	RI	00	1838.5		SG=4	
161	LP	00	1848.8	DJ		
162	RI	00	1859.4		HP	
163	RI	00	1899.8		METRIC @ END U163	
165	RI	00	1929.9		LG SCULPIN	
166	LP	00	1948.1		1" FISH	
167	RI	00	1978.3		NEWT	
169	LP	01	2032.7	/TJ		
170	RB	11	2032.7		TRIB UNIT, T=8.5C/0926	
177	RI	00	2120.9		HP	
178	LP	00	2127.8		HP	
186	RI	00	2224		2*1M POCKET	
193	LP	00	2302	DJ		
194	RI	00	2313.2		NEWT	
201	LP	01	2411.6	SS/,TJ/		
202	CB	11	2411.6	EOS	T=10C/1041, TRIB	

10 4 60 000m 10 4 61 000m 10 4 62 000m 10 4 63 000m 10 4 64 000m

β START SURVEY

β END SURVEY



Name: BEAVER CREEK
Date: 1/5/2004
Scale: 1 inch equals 2000 feet

Location: 10 462059 E 4855218 N
Caption: HAIGHT CREEK RESTORATION SITE - SIUSLAW BASIN