

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

STREAM: Haight Creek (MC-224)
BASIN: Siuslaw River
SURVEY TYPE: Post-Tx
DATE: August 8, 2006
SURVEY CREW: Jennifer Jacobs, Andy Livesay
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 2,252 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 7.1 (range: 1.1-15.4). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 1.4 percent. Scour pools (62%) and riffles (22%) dominated stream habitat. Gravel (38%) and bedrock (21%) dominated stream substrate. Wood volume was moderate at 29.1 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-S02NE

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	7.1	VWI Range:	1.1 - 15.4

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 Channel	2,252	7,081	1
Secondary Channel	261	896	12
Off-Channel Units	37	67	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<i>n = 10</i>	<u>First Terrace</u>	<i>n = 9</i>
Width: 3.0	Width: 7.2	9.7	(5.9 - 14.5)	10.9	(7.2 - 15)
Depth: 0.20	Height: 0.5	0.9	(0.82 - 1.1)	1.1	(1 - 1.2)

W:D ratio: 15.6
 Stream Flow Type: MF
 Average Unit Gradient: 1.4%
 Water temperature (°C): 15.0 - 15.0

Entrenchment (ACW:FPW ratio): 1.4
 Habitat Units/100m (total channel length): 7.6
 Habitat Units/100m (primary channel length): 8.6

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	5%	Reach avg: 89%
Undercut Banks:	11%	Range: 53 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	390	17.3
Volume (m ³):	655	29.1
Key pieces (>=12m x 0.60m):	53	2.4

OREGON DEPT OF FISH AND WILDLIFE

HAIGHT CREEK POST-TX (2-MC, 224)

HABITAT INVENTORY

Report Date: 3/5/2007

Survey Date:

8/8/2006

REACH 1		T20S-R07W-S02NE					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	1	7	2.0	0.01	13	0	0	5	85	10	0	0
CULVERT CROSSING	1	14	3.0	0.25	41	0	0	10	60	30	0	0
DRY UNIT	12	172	4.5	0.00	747	0	28	35	33	4	0	0
GLIDE	1	12	1.9	0.09	23	0	0	15	45	40	0	0
POOL-BACKWATER	1	4	1.0	0.20	4	0	25	65	0	10	0	0
POOL-LATERAL SCOUR	91	1,443	3.4	0.39	5,027	21	9	23	23	11	1	33
PUDDLED UNIT	3	33	0.6	0.06	25	10	7	30	40	23	0	0
RAPID/BEDROCK	1	12	2.6	0.02	31	0	0	5	5	5	0	85
RAPID/BOULDERS	1	8	2.2	0.02	17	1	0	0	60	40	0	0
RIFFLE	42	699	2.8	0.04	1,791	11	1	10	51	19	0	19
STEP/BEDROCK	1	4	1.8	0.05	7	0	0	5	5	10	0	80
STEP/COBBLE	36	138	2.3	0.03	307	0	0	5	64	30	0	1
STEP/LOG	3	8	1.6	0.02	13	0	3	16	45	19	0	17
Total:	194	2,550	3.0	0.20	8,045	43	Avg: 6	17	38	17	0	21

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	4	1.0	0.20	4	0.04%	0	0.0	
Scour Pools	91	1,443	3.4	0.39	5,027	62.48%	21	0.4	
Glides	1	12	1.9	0.09	23	0.28%	0	0.0	
Riffles	42	699	2.8	0.04	1,791	22.26%	11	0.6	
Rapids	2	20	2.4	0.02	48	0.59%	1	2.1	
Cascades	1	7	2.0	0.01	13	0.16%	0	0.0	
Step/Falls	40	149	2.2	0.03	328	4.07%	0	0.0	
Dry	15	205	3.7	0.01	772	9.59%	10	1.3	
Culverts	1	14	3.0	0.25	41	0.50%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths	
		# / Km	Primary Channel Length # / Km
All Pools:	92	36.1	40.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	36	14.1	16.0
Pool frequency (channel widths/pool):	3.9		
Residual pool depth (avg):	0.37		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

HAIGHT CREEK POST-TX
GCG: 2-MC SITE ID: 224

Survey Date 8/8/2006
Report Date: 3/5/2007

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) 8 transects

Total hardwoods/1000	632
Total conifers/1000 ft	175
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	0.1	2.1	0.0	2.1	0.3	1.4	0.4	5.6
15-30cm	0.0	1.8	0.9	1.3	1.4	1.4	2.3	4.4
30-50cm	0.0	0.0	0.0	0.0	0.3	0.1	0.3	0.1
50-90cm	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
>90cm	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Total/100m2	0.1	4.0	0.9	3.5	1.9	2.9	1.0	3.5

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	61		72		75	
Shrub cover	60		49		45	
Grass/forb cover	37		43		43	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	6		25		44	
High terrace	94		69		44	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		6		13	
Riprap	0		0		0	
Surface slope (%)	1		8		17	

Summary of Riparian Zone (0-30m) for all reaches

8 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	632
Total conifers/1000 ft	175
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	0.4	5.6
15-30cm	2.3	4.4
30-50cm	0.3	0.1
50-90cm	0.0	0.1
>90cm	0.0	0.1

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		
26	RT	2	HT	0	75	50	50	Conifer		2					
								Hardwood	1						
26	RT	1	HT	0	60	30	60	Conifer							
								Hardwood	1	1					
26	LF	3	HT	0	65	75	20	Conifer			2				
								Hardwood	2						
26	LF	2	HT	0	40	85	10	Conifer							
								Hardwood							
26	RT	3	HS	20	80	25	70	Conifer			1	1			
								Hardwood							
26	LF	1	HT	0	0	90	10	Conifer							
								Hardwood							
44	RT	1	HT	0	85	20	80	Conifer							
								Hardwood	1	3					
44	RT	2	HT	0	75	65	30	Conifer							
								Hardwood	2						
44	LF	3	HT	0	85	50	40	Conifer							
								Hardwood		2					
44	LF	2	HT	0	90	50	45	Conifer							
								Hardwood		5					
44	LF	1	HT	0	75	90	10	Conifer							
								Hardwood		1					
44	RT	3	RB	0	0	15	25	Conifer					1		
								Hardwood							
65	RT	3	HT	0	60	80	20	Conifer							
								Hardwood		1	1				
65	LF	1	HT	0	75	15	70	Conifer							
								Hardwood		3					
65	LF	2	HT	0	80	35	55	Conifer							
								Hardwood	1	1					
65	LF	3	HT	0	80	75	20	Conifer							
								Hardwood	2	2					
65	RT	1	HT	0	85	20	75	Conifer							
								Hardwood	2						
65	RT	2	HT	0	0	100	0	Conifer							
								Hardwood							

88	RT	3	HS	50	80	35	60	Conifer	1		
								Hardwood	4		
88	LF	2	HT	0	90	0	75	Conifer			1
								Hardwood			
88	LF	3	HT	0	85	15	75	Conifer			
								Hardwood			
88	RT	1	HS	20	90	60	40	Conifer			
								Hardwood	2	1	
88	RT	2	HS	20	90	30	70	Conifer	1		
								Hardwood	2		
88	LF	1	HT	0	85	35	65	Conifer			
								Hardwood	5		
103	RT	3	HS	40	85	20	80	Conifer	2		
								Hardwood			
103	RT	2	HS	40	70	40	60	Conifer	1		
								Hardwood			
103	RT	1	HT	0	10	100	0	Conifer			WILLOWS
								Hardwood			
103	LF	3	HS	50	85	15	80	Conifer	1		
								Hardwood			
103	LF	2	HS	50	75	30	65	Conifer	1		
								Hardwood	2		
103	LF	1	HT	0	0	100	0	Conifer			WILLOWS
								Hardwood	1		
124	LF	2	HS	10	85	70	30	Conifer	1		
								Hardwood			
124	LF	1	HT	0	80	80	20	Conifer			
								Hardwood	1		
124	RT	3	HT	0	75	80	20	Conifer			
								Hardwood	1		
124	RT	2	HT	0	80	80	20	Conifer			
								Hardwood	3	1	
124	LF	3	HS	20	80	80	20	Conifer	1		
								Hardwood	2		
124	RT	1	HT	0	75	70	30	Conifer			
								Hardwood	2	1	
150	RT	1	HT	0	0	80	20	Conifer			
								Hardwood			
150	LF	1	HT	0	85	60	30	Conifer	1		
								Hardwood	3	1	
150	RT	3	HT	0	80	50	40	Conifer			
								Hardwood	1	1	
150	RT	2	HT	0	90	35	20	Conifer			
								Hardwood	3		
150	LF	3	HS	80	95	25	25	Conifer	2	3	
								Hardwood			VERY CLOSE SPACED TIMBER

150	LF	2	RB	0	40	20	80	Conifer		
								Hardwood	1	1
179	LF	1	HT	0	85	75	20	Conifer		
								Hardwood	1	1
179	LF	2	HT	0	80	85	10	Conifer		
								Hardwood	2	2
179	LF	3	RB	0	75	45	50	Conifer		
								Hardwood	1	
179	RT	1	HT	0	85	40	60	Conifer		
								Hardwood	1	
179	RT	2	HT	0	85	10	65	Conifer		1
								Hardwood		
179	RT	3	HS	15	85	40	50	Conifer		
								Hardwood	1	2

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SC	00	2.5		NO COVERAGE	RSN
3	CC	00	32.5	CC		DIA.=3.2m METAL AND G
4	LP	00	37.5		DEPTH = >3m	
8	LP	01	76	HS, DJ		
18	LP	01	158.8	HS		PLACED LOGS
20	PD	02	158.8		ACW = 4.5	
24	LP	00	242.3	HS		PLACED LOGS
25	LP	00	259.3	DJ		
26	SC	00	261.3		METRIC, Rip #1	
27	LP	00	302.3		0460231/4857396	
30	SC	01	325.8	/TJ		
31	CB	11	325.8		ACW = 9m	
35	LP	00	394.8	HS		PLACED LOGS
38	LP	01	459.8	BV, DJ,		OLD BEAVER POOL
41	LP	00	469.8	BV		
43	LP	00	483.3		T=15C	
44	RI	00	513.3		METRIC, Rip #2	
45	LP	00	533.3		0460208/4857198, 2D	
47	LP	00	549.3	HS		PLACED LOGS
48	LP	00	558.3	HS		PLACED LOGS
49	RI	00	567.3	BV		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK POST-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
50	LP	00	591.3	HS		
58	LP	00	711.3	HS		PLACED LOGS
62	LP	00	762.8	HS		PLACED LOG
65	RI	00	798.3	HS	METRIC, Rip #3	PLACED LOGS
66	LP	00	818.3	HS	0460236/4857022, 3D	PLACED LOGS
68	LP	00	874.8	BV		
74	LP	01	951.3	DJ		
81	LP	01	1020.8	HS		PLACED LOGS
82	SC	01	1023.8	HS		
83	LP	01	1028.8	HS		
84	RI	01	1043.8	HS		
88	LP	01	1058.8	/TJ	METRIC, Rip #4	
90	LP	11	1058.8		0460209/4856865	
96	RI	00	1175.3	BV		
97	LP	00	1184.8	SS/		HEAVILY WOODDED
98	SC	00	1185.8			HEAVILY WOODDED
100	RI	00	1230.3			HEAVILY WOODDED
101	LP	00	1252.3			HEAVILY WOODDED
102	LP	00	1268.3	BV		HEAVILY WOODDED
103	RI	00	1311.3	BV	METRIC, Rip #5	METRIC & RIP, NO PIC, BR
104	LP	00	1341.3		0460335/4856655, 2D	

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK POST-TX

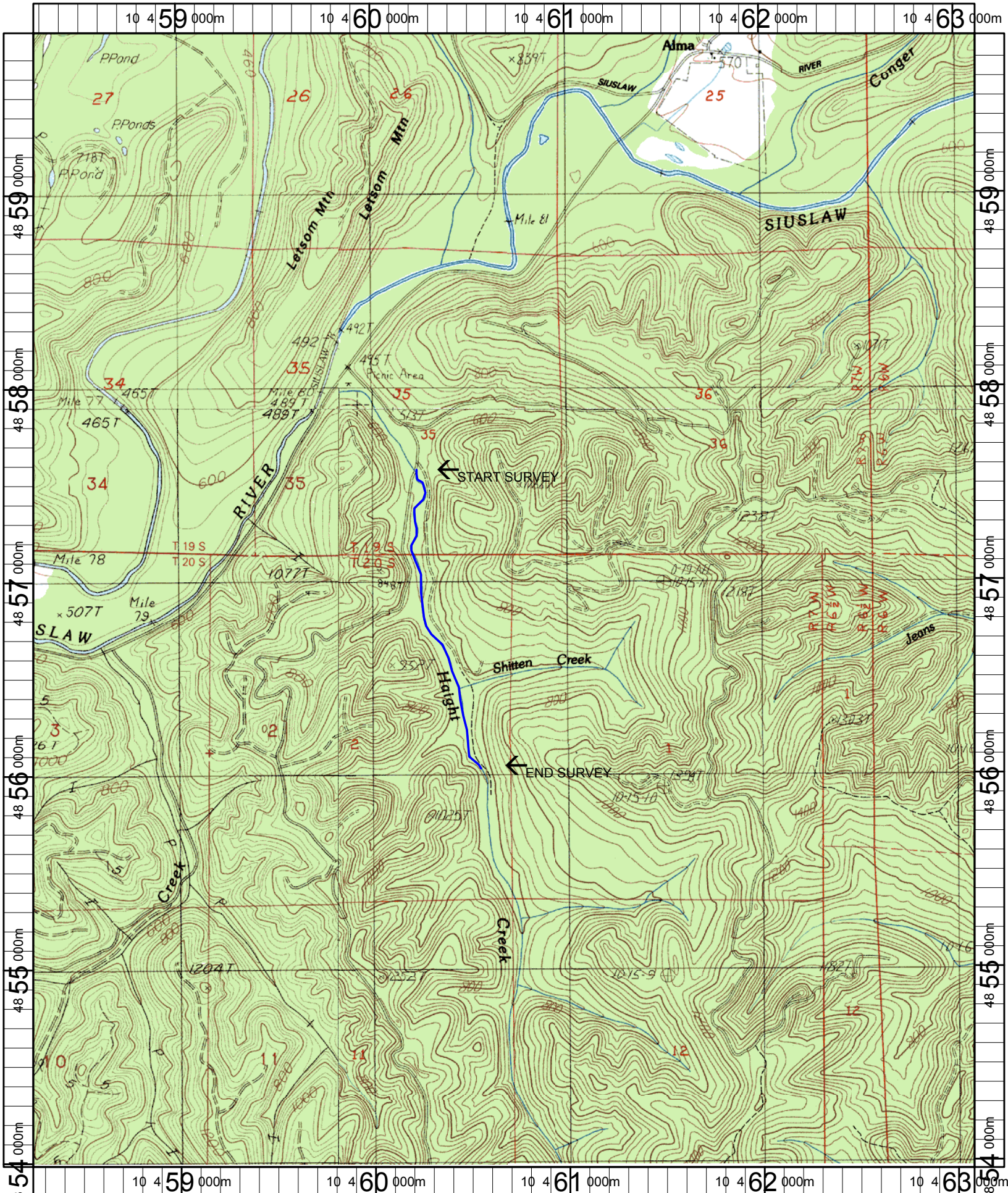
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
105	RI	00	1355.3			FRY
118	LP	01	1495.8	HS		PLACED LOGS
121	DU	02	1515.8			OLDER CHANNEL
124	SC	00	1533		METRIC, Rip #6	
125	LP	00	1545.5	DJ	0460415/4856517, 2D	
127	LP	01	1578.5	HS		PLACED LOGS
129	LP	00	1590.5	HS		PLACED LOGS
132	RI	01	1652.5	HS, TJ/		PLACED LOGS
133	RR	11	1652.5		T=13.5C	
134	DU	00	1658.5	DJ	0460497/4856477, 3D	
138	LP	02	1689		RSN'S	SLOUGH
140	LP	02	1689			MARSHY
143	LP	00	1702	DJ,HS		DAM POOL
148	SC	01	1780	HS		PLACED LOGS
149	LP	01	1786	HS		PLACED LOGS
150	SC	01	1791		METRIC, Rip #7	
151	LP	01	1803		0460478/4856319	COHO FRY
158	LP	01	1876.5	/TJ, HS		PLACED LOGS
160	SC	00	1881	HS		PLACED LOGS
166	RI	00	1940.5			RLF
167	LP	01	1947	DJ		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 2-MC SITE ID: 224 HAIGHT CREEK POST-TX

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
179	RI	00	2050		METRIC, Rip #8	
180	LP	00	2067		0460495/4856125	
192	RI	00	2234.5	SS/		
194	RI	00	2252		MV, 0460580/4855979, 3D	END



Name: BEAVER CREEK
 Date: 6/13/2005
 Scale: 1 inch equals 2000 feet

Location: 10 460675 E 4856899 N
 Caption: HAIGHT CREEK RESTORATION SITE - SIUSLAW BASIN