

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

STREAM: Dement Creek (MS-281)  
BASIN: Coquille River  
SURVEY TYPE: Pre-Tx  
DATE: February 15, 2005  
SURVEY CREW: Neil Jensen, Jenni Schmitt  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 37.3 km<sup>2</sup>  
USGS MAPS: Dement Creek  
ECOREGION: Southern Oregon Coastal Mountains

**GENERAL DESCRIPTION:**

The Dement Creek habitat survey extended 1,522 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.6 (range: 1.6-4.3). Land use for the reach was second growth (15-30 cm dbh) trees and timber harvest. The average unit gradient was 1.4 percent. Scour pools (52%) and rapids (20%) dominated stream habitat. Cobble (30%) and gravel (23%) dominated stream substrate. Wood volume was low at 7.8 m<sup>3</sup>/100m.

REACH 1

T30S-R13W-S25NE

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	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.6	VWI Range:	1.6 - 4.3

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	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	1,522	9,390	0
Secondary Channel	51	256	0
Off-Channel Units	71	169	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 7	<u>First Terrace</u> n = 5
Width: 5.9	Width: 10.9	17.2 ( 9.8 - 30.7 )	17.8 ( 10.9 - 32.9 )
Depth: 0.50	Height: 0.5	1.1 ( 0.96 - 1.18 )	1.3 ( 1.26 - 1.36 )

W:D ratio: 20.7  
 Stream Flow Type: MF  
 Average Unit Gradient: 1.4%  
 Water temperature (°C): 3.0 - 3.0

Entrenchment (ACW:FPW ratio): 1.5  
 Habitat Units/100m (total channel length): 4.7  
 Habitat Units/100m (primary channel length): 5.1

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	TH
Riparian Vegetation:	D30	D15

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 primary channel</u>
All pieces (>=3m x 0.15m):	156	10.2
Volume (m <sup>3</sup> ):	118	7.8
Key pieces (>=12m x 0.60m):	6	0.4

OREGON DEPT OF FISH AND WILDLIFE

DEMENT CREEK PRE-TX (3-MS, 281)

HABITAT INVENTORY

Report Date: 11/29/2005

Survey Date:

2/15/2004

REACH 1		T30S-R13W-S25NE					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	8	189	3.3	0.16	817	0	0	5	33	44	17	1
POOL-BACKWATER	2	10	3.6	0.63	37	0	82	12	0	0	5	0
POOL-LATERAL SCOUR	33	781	6.3	0.92	5,065	0	18	36	16	11	7	12
RAPID/BOULDERS	15	339	6.0	0.18	1,948	0	1	4	23	53	16	3
RIFFLE	8	237	5.8	0.21	1,383	0	1	9	53	26	4	6
STEP/BEDROCK	2	19	4.5	0.20	84	0	0	1	6	3	7	83
STEP/COBBLE	10	69	7.2	0.11	481	0	1	3	22	63	9	2
<b>Total:</b>	<b>78</b>	<b>1,645</b>	<b>5.9</b>	<b>0.50</b>	<b>9,815</b>	<b>0</b>	<b>Avg: 10</b>	<b>18</b>	<b>23</b>	<b>30</b>	<b>10</b>	<b>9</b>

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	2	10	3.6	0.63	37	0.38%	0	0.0
Scour Pools	33	781	6.3	0.92	5,065	51.61%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	8	237	5.8	0.21	1,383	14.09%	0	0.0
Rapids	15	339	6.0	0.18	1,948	19.85%	0	0.0
Cascades	8	189	3.3	0.16	817	8.33%	0	0.0
Step/Falls	12	88	6.7	0.13	564	5.75%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	35	21.3	23.0
Pools >=1m deep:	10	6.1	6.6
Complex pools (LWD pieces>=3):	11	6.7	7.2
Pool frequency (channel widths/pool):	4.3		
Residual pool depth (avg):	0.70		

# Comment Summary

## Restoration Monitoring Sites 2005

MONITORING AREA: **3-MS**      SITE ID: **281**      **DEMENT CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
3	SC	00	42.7		REDD	
4	LP	00	56.6	SS/	FLAG FOR SITE 1	
5	LP	00	85.6		1.0 M STEP BETWEEN POOLS	
6	RB	01	100.5	TJ/	FLAG FOR SITE 2	
8	LP	00	141.1	/SS		
9	RB	00	169.1		FLAG FOR SITE 3	
10	LP	00	199.9	SS/SS		
11	CB	00	232.4		FLAG FOR SITE 4	
12	LP	01	258.8		FLAG FOR SITE 5	
15	LP	00	300.7	/LS	SITE 6	
16	RB	01	322.2	/TJ		
18	LP	00	353.2	/LS	SITE 7	
19	RB	00	365.4	/SS		
21	RI	00	396.1		SITE 8	
22	LP	00	411.8	LI/		
25	SC	00	462.9	SS/		
28	LP	00	497.9	DJ		
30	LP	01	543.8	TJ/	SITE 9	
32	RI	00	575.3	/SS		
34	LP	00	611.9	/SS		
35	SC	00	615	/SS		

# Comment Summary

## Restoration Monitoring Sites 2005

MONITORING AREA: **3-MS**      SITE ID: **281**      **DEMENT CREEK PRE-TX**

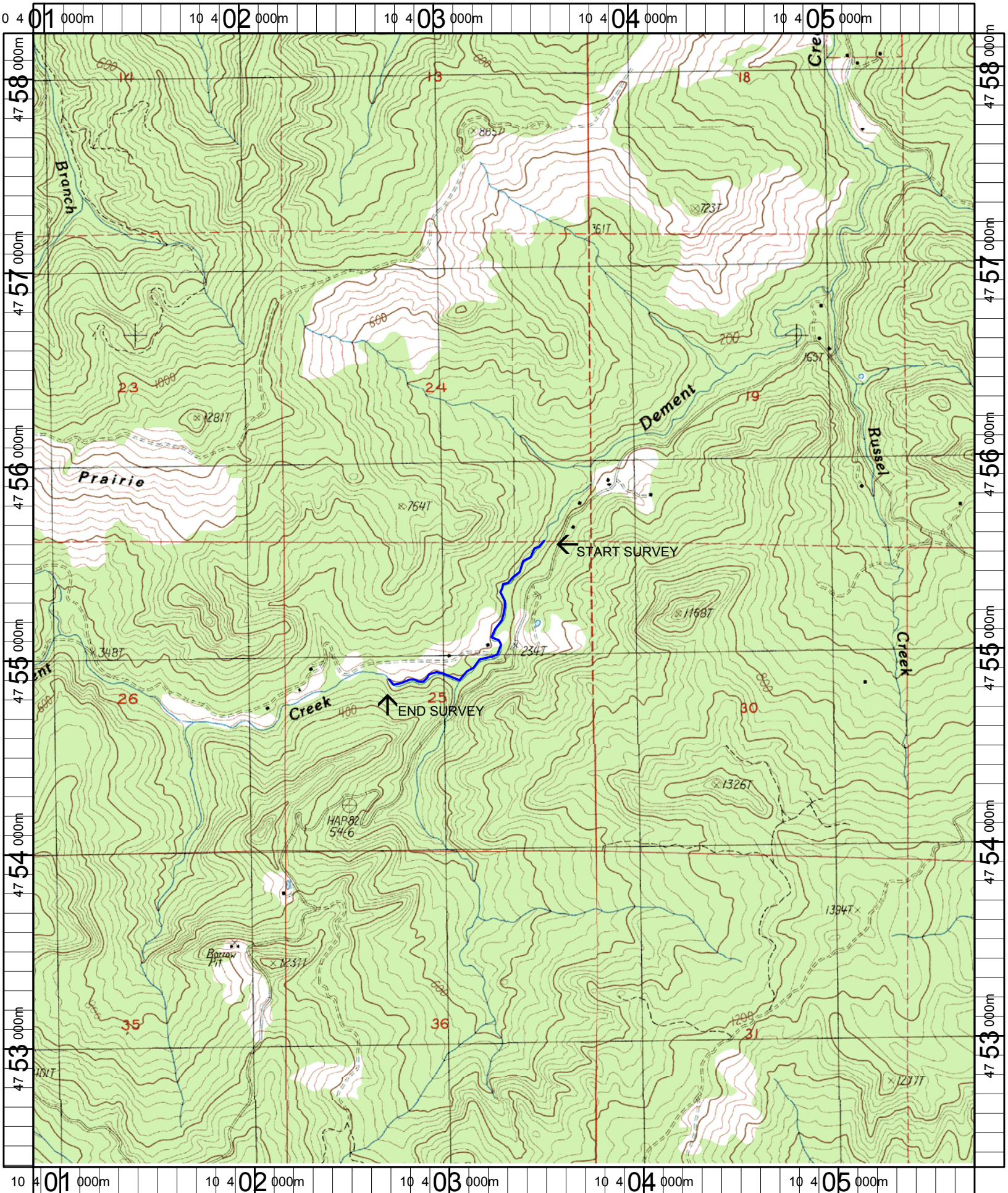
<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
38	LP	00	667.8			SITE 10
39	RB	00	712.8	LA/		
42	LP	01	783.9	BC, TJ/		
44	RB	00	799.2	SS/		
47	LP	00	852.3			SITE 11
50	SR	00	911.4	/SS		
51	LP	00	936.5			SITE 12
52	LP	00	957.4	LI/		
53	RB	00	985.5	LA/		SITE 13
55	RI	00	1062.3			SITE 14
59	LP	02	1114.6			SITE 15
61	LP	01	1145.7	TJ/		
64	LP	00	1207.3	LS/		SITE 17
65	SC	00	1215.7	LA/		
66	LP	00	1237.6	/SS		SITE 18
67	CB	00	1280.5	DJ		
69	LP	00	1334.3			SITE 19
71	LP	00	1365.9	LI,LA/SS/		SITE 20
72	RB	00	1397.1			SITE 21
74	LP	00	1438.1	SS/		
76	RI	00	1495.1	SS/		SITE 22

# Comment Summary

## Restoration Monitoring Sites 2005

MONITORING AREA: 3-MS      SITE ID: 281      DEMENT CREEK PRE-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>
78	CB	00	1522.1	DJ		



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

Location: 10 403321 E 4755280 N  
Caption: DEMENT CREEK RESTORATION SITE - COQUILLE BASIN