

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

STREAM: Dement Creek Phase 2 (MS-357)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: March 12, 2007
SURVEY CREW: Laurel Moulton, Andy Lanier
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 19.2 km²
USGS MAPS: Dement Creek
ECOREGION: Southern Oregon Coastal Mountains

GENERAL DESCRIPTION:

The Dement Creek habitat survey extended 1,084 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.4 (range: 1.0-2.0). Land use for the reach was agriculture and mature (50-90 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (57%) and riffles (27%) dominated stream habitat. Cobble (30%) and gravel (21%) dominated stream substrate. Wood volume was very low at 5.2 m³/100m.

COMMENTS:

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

REACH 1

T30S-R12W-S19-S

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	1.4	VWI Range:	1 - 2

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	1,084	9,067	0
Secondary Channel	33	25	0
Off-Channel Units	15	28	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 7.4	Width: 11.3	14.6 (10.5 - 18.5)	18.0 (18 - 18)
Depth: 0.54	Height: 0.5	1.0 (0.8 - 1.2)	1.5 (1.5 - 1.5)

W:D ratio: 22.4
 Stream Flow Type: MF
 Average Unit Gradient: 0.8%
 Water temperature (°C): 11.0 - 11.0

Entrenchment (ACW:FPW ratio): 1.3
 Habitat Units/100m (total channel length): 4.9
 Habitat Units/100m (primary channel length): 5.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	AG	MT
Riparian Vegetation:	D30	G

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):	72	6.6
Volume (m ³):	56	5.2
Key pieces (>=12m x 0.60m):	2	0.2

HABITAT INVENTORY

Report Date: 4/25/2007

Survey Date:

3/12/2007

REACH 1		T30S-R12W-S19-S					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	3	2.5	0.10	8	0	4	9	4	26	57	0
POOL-DAMMED	1	31	10.0	1.00	310	0	14	24	33	24	5	0
POOL-LATERAL SCOUR	22	564	7.9	0.90	4,749	0	5	24	22	25	12	11
POOL-PLUNGE	3	39	8.3	1.07	380	0	3	29	11	9	11	36
POOL-TRENCH	1	8	5.0	0.80	40	0	0	14	0	0	0	86
RAPID/BOULDERS	1	22	8.0	0.20	176	0	0	10	20	45	25	0
RIFFLE	8	214	6.4	0.20	1,492	0	2	15	26	40	12	5
RIFFLE W/ POCKETS	3	109	8.0	0.25	930	0	2	15	25	38	21	0
STEP/BEDROCK	4	18	6.3	0.19	108	0	0	1	6	11	23	58
STEP/BOULDERS	2	18	6.5	0.28	126	0	0	12	19	33	35	0
STEP/COBBLE	10	106	7.6	0.14	801	0	0	6	26	47	14	7
Total:	56	1,132	7.4	0.54	9,120	0	Avg: 3	17	21	30	15	14

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	31	10.0	1.00	310	3.40%	0	0.0	
Scour Pools	26	611	7.8	0.91	5,169	56.68%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	11	323	6.8	0.21	2,422	26.56%	0	0.0	
Rapids	1	22	8.0	0.20	176	1.93%	0	0.0	
Cascades	1	3	2.5	0.10	8	0.08%	0	0.0	
Step/Falls	16	142	7.1	0.17	1,035	11.35%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	27	23.9	24.9
Pools >=1m deep:	9	8.0	8.3
Complex pools (LWD pieces>=3):	6	5.3	5.5
Pool frequency (channel widths/pool):	3.7		
Residual pool depth (avg):	0.71		

Comment Summary

Restoration Monitoring Sites 2007

MONITORING AREA: **3-MS** SITE ID: **357** **DEMENT CREEK PHASE 2 PRE-TX**

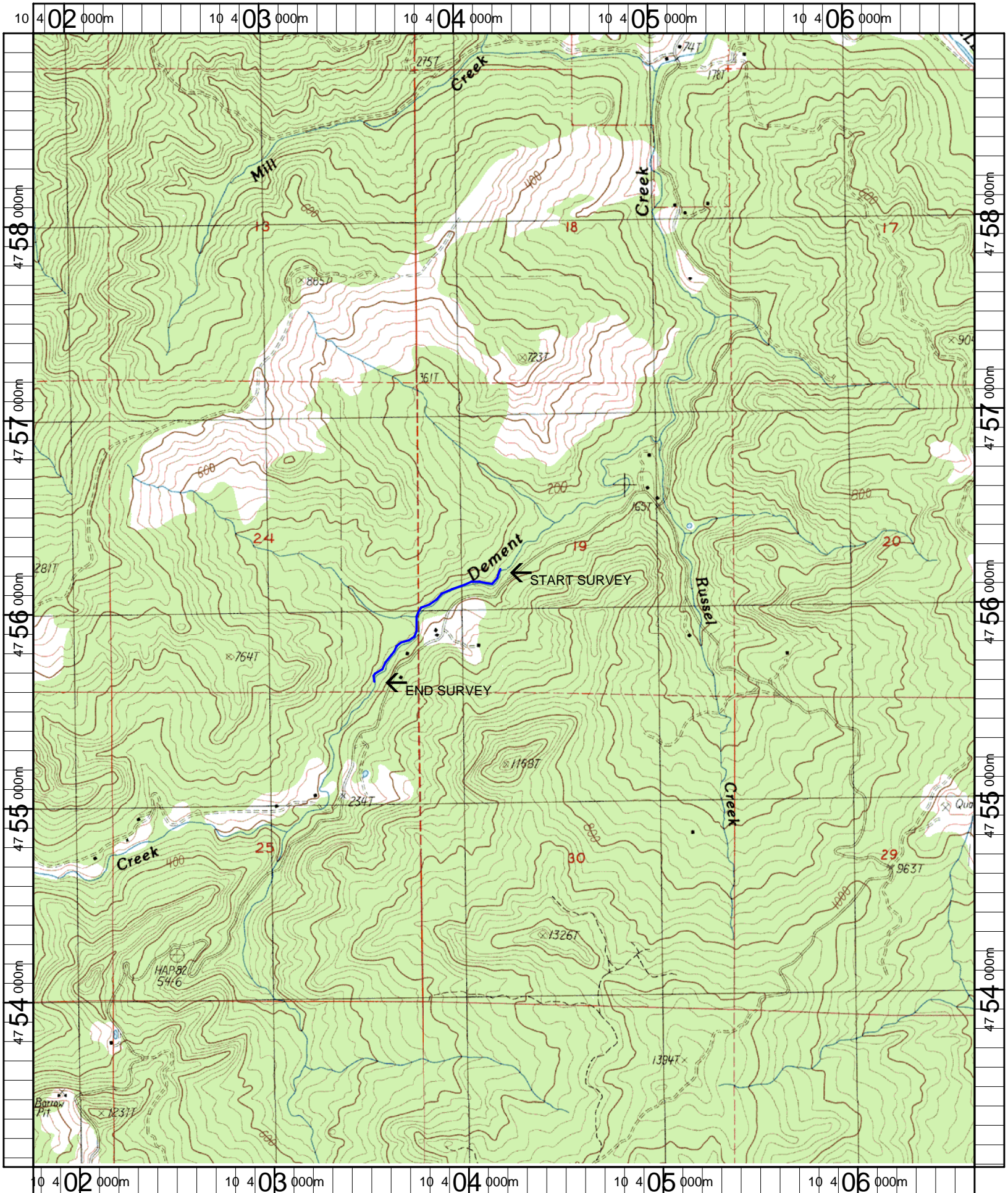
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
1	DP	00	31		START W/ DP AFTER SL.
2	RI	00	57		ROUGH SKIN NEWT
5	SC	01	107	TJ/	TEMPERATURE =11.0
6	CB	11	107		TEMPERATURE =10.5
9	SC	00	152		ADULT SALMONID
11	SB	00	181	/SS	
14	RP	00	274	/SS	
17	RI	00	332	SS/	2 REDDS. JUV. COHO.
20	LP	00	438		3 REDDS TAILOUT
21	SC	00	453	SS/, RF	
22	LP	01	500	/TJ SS/SS	2 ADULT SAL 1 RED, 1GRAY . JUV
23	SC	11	500		TEMPERATURE =10.5
25	LP	00	559		SIGN = DEMENT CRK REF.
26	RI	00	604	BV, SS/ x2	
27	LP	00	633	RC	ATV TRAIL XING
29	SR	00	651		FLAG= RIP 1, UNIT 9, SITE 282,
30	LP	00	691		BROKEN FENCE CROSSING STREAM.
38	LP	00	810		1-2 REDDS IN TAILOUT
41	LP	00	881		JUVENILE SALMONID
42	SB	00	887		FLAG= DEMENT CRK NUMBER 282
43	LP	00	903	SS/	

Comment Summary

Restoration Monitoring Sites 2007

MONITORING AREA: 3-MS SITE ID: 357 DEMENT CREEK PHASE 2 PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
45	LP	00	948	/SS	
50	SC	00	995		JUVENILE SALMONID
52	RI	01	1043	SS/	



Name: DEMENT CREEK
 Date: 1/3/2007
 Scale: 1 inch equals 2000 feet

Location: 10 404220 E 4756042 N
 Caption: DEMENT CREEK PHASE 2 RESTORATION SITE - COQUILLE BASIN