

REACH 1

T9S-R10W-S5NW

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 avg: 12.5 range: 8.0-20.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	100
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	467	1,403	0
Secondary	40	56	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 2.7	5.0	43.1	7.2
Depth 0.37	0.6	1.2	1.0
W:D ratio	8.7	Entrenchment 8.4	

Stream Flow Type: MF Water Temp: 12.0-12.0°C  
 Avg. Unit Gradient: 1.0% Habitat Units/100m: 9.7

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 93%
Undercut Banks	5%	Range: 61-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	96	20.5
Volume (m <sup>3</sup> )	105	22.4
Key pieces ( $\geq 10m \times 0.6m$ )	3	0.6

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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	Cbbl	Bldr	Bdrk
GLIDE	2	33	2.3	0.15	87	0	5	55	40	0	0	0
POOL-BACKWATER	3	16	1.8	0.20	26	0	63	37	0	0	0	0
POOL-ISOLATED	1	2	1.7	0.30	3	0	30	70	0	0	0	0
POOL-LATERAL SCOUR	22	218	3.3	0.53	775	0	20	51	27	1	0	1
POOL-PLUNGE	1	17	2.8	0.50	47	0	0	70	30	0	0	0
RIFFLE	18	218	2.2	0.26	516	0	3	12	84	0	0	1
STEP/COBBLE	1	3	1.3	0.10	4	0	0	5	95	0	0	0
STEP/LOG	1	1	1.0	0.05	1	0	0	50	50	0	0	0
<b>Total:</b>	<b>49</b>	<b>507</b>	<b>2.7</b>	<b>0.37</b>	<b>1,459</b>	<b>0</b>	<b>Avg:15</b>	<b>35</b>	<b>48</b>	<b>1</b>	<b>0</b>	<b>1</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	4	18	1.8	0.23	29	1.99	0	0.0
Scour Pools	23	235	3.3	0.52	822	56.35	0	0.0
Glides	2	33	2.3	0.15	87	5.96	0	0.0
Riffles	18	218	2.2	0.26	516	35.36	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	2	4	1.2	0.08	5	0.33	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	27	53.2
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces≥3):	13	25.6
Pool Frequency (channel widths/pool):	3.8	
Residual pool depth (avg)	0.49m	

STREAM SUMMARY

ROOTS CREEK (POST SUMM 1999)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
49	507	2.7	0.37	1,459	15	35	48	1	0	1	0

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	822	56.4
Backwater Pools	29	2.0
Glide	87	6.0
Riffle	516	35.4
Rapid	0	0.0
Cascade	0	0.0
Step	5	0.3
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (2 transects)

Total hardwoods/1000 ft	732
Total conifers/1000 ft	183
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	30

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	0.0	0.5	0.0	1.5	0.0	2.0	0.0	4.0
15-30cm	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0
30-50cm	0.5	0.5	0.5	1.5	0.0	1.5	1.0	3.5
50-90cm	0.0	1.0	0.0	1.5	0.5	1.0	0.5	3.5
>90cm	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
Total/100m <sup>2</sup>	0.5	3.0	0.5	4.5	2.0	4.5	1.0	4.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	86		91		79	
Shrub cover	25		38		65	
Grass/forb cover	75		63		35	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		0		25
High terrace	75		100		75	
Low terrace	25		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 (%)	1		1		3	

Summary of Riparian Zone (0-30m) for all reaches ( 2 transects)

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

Total hardwoods/1000 ft	732
Total conifers/1000 ft	183
Total conifers >20" dbh/1000 ft	61

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	4.0
15-30cm	1.0	1.0
30-50cm	1.0	3.5
50-90cm	0.5	3.5
>90cm	0.5	0.0

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RIPARIAN ZONE VEGETATION

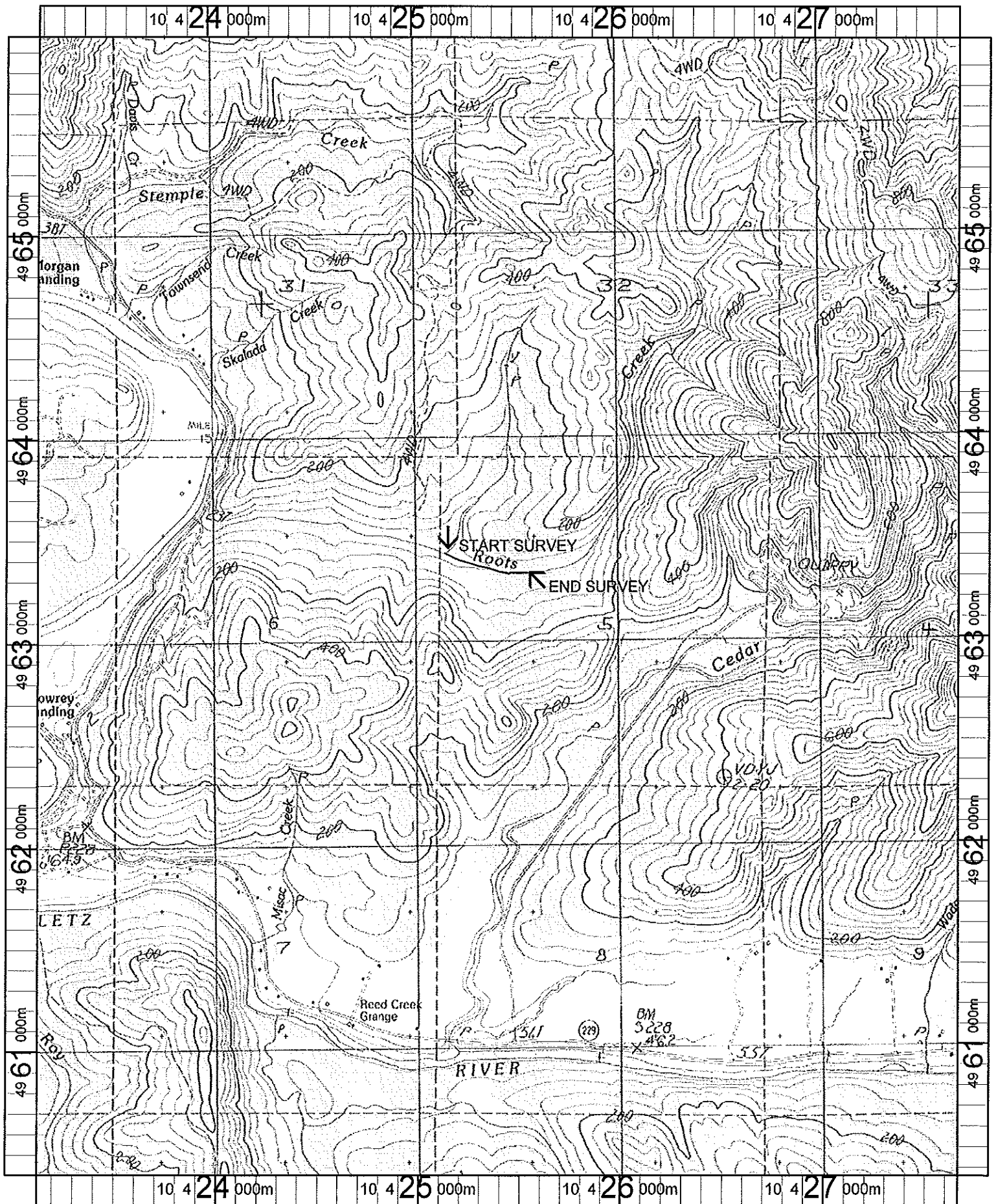
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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
17	LF	1	LT	0.0	95	0	100	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	1	0	
17	LF	2	HT	5.0	95	50	50	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	1	0	
17	LF	3	HT	0.0	50	90	10	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
17	RT	1	HT	2.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
17	RT	2	HT	0.0	95	10	90	Conifer	0	0	1	0	0	
								Hardwood	0	0	2	2	0	
17	RT			0.0	0	0	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
17	RT	3	HS	10.0	85	85	15	Conifer	0	2	0	0	0	
								Hardwood	0	0	2	0	0	SS IN ZONE # 3
33	LF	1	HT	0.0	80	10	90	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	1	0	
33	LF	2	HT	0.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
33	LF	3	HT	0.0	95	35	65	Conifer	0	0	0	0	0	
								Hardwood	3	0	1	2	0	HUGE STUMP
33	RT	1	HT	0.0	80	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
33	RT	2	HT	0.0	85	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
33	RT	3	HT	0.0	85	50	50	Conifer	0	0	0	1	1	
								Hardwood	0	0	0	0	0	OLD GROWTH
33	RT			0.0	0	0	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	





Name: MOWREY LANDING  
 Date: 4/25/100  
 Scale: 1 inch equals 2000 feet

Location: 10 425323 E 4963151 N  
 Caption: ROOTS CREEK  
 RESTORATION SITE  
 ODFW 1999