

REACH 1

T5N-R4W-S3SW

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 avg: 7.0 range: 5.0-8.0

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	563	1,823	0
Secondary	15	15	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.2	Width	5.6	7.0	9.5
Depth	0.26	Height	0.6	1.2	1.5
		W:D ratio	9.3	Entrenchment	1.3

Stream Flow Type: LF Water Temp: 16.0-16.0°C
 Avg. Unit Gradient: 2.0% Habitat Units/100m: 4.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	M30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	68%	Reach avg: 86%
Undercut Banks	19%	Range: 75- 92

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	203	36.1
Volume (m ³)	289	51.3
Key pieces ($\geq 10m \times 0.6m$)	19	3.4

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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	Cbbl	Bldr	Bdrk
CASCADE/BEDROCK	1	10	0.5	0.05	5	0	5	5	5	5	0	80
GLIDE	5	74	4.4	0.23	326	0	21	26	9	7	0	38
POOL-BACKWATER	1	5	2.1	0.30	10	0	50	50	0	0	0	0
POOL-LATERAL SCOUR	5	87	3.8	0.40	330	0	25	22	6	9	1	37
POOL-STRAIGHT SCOUR	3	32	4.2	0.37	138	0	25	23	8	10	0	33
RIFFLE	9	218	2.2	0.16	510	45	14	18	19	15	2	33
RIFFLE W/ POCKETS	4	152	3.5	0.28	520	0	15	20	16	13	0	36
Total:	28	578	3.2	0.26	1,838	45	Avg:19	22	12	11	1	36

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	1	5	2.1	0.30	10	0.53	0	0.0
Scour Pools	8	119	4.0	0.39	468	25.44	0	0.0
Glides	5	74	4.4	0.23	326	17.71	0	0.0
Riffles	13	370	2.6	0.20	1,030	56.04	45	4.4
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	1	10	0.5	0.05	5	0.28	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	9	15.6
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	6	10.4
Pool Frequency (channel widths/pool):	11.5	
Residual pool depth (avg)	0.26m	

STREAM SUMMARY

FALL CREEK (POST SUM 99)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
28	578	3.2	0.26	1,838	19	22	12	11	1	36	45

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	468	25.4
Backwater Pools	10	0.5
Glide	326	17.7
Riffle	1,030	56.0
Rapid	0	0.0
Cascade	5	0.3
Step	0	0.0
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (1 transects)

Total hardwoods/1000 ft	549
Total conifers/1000 ft	122
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	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
15-30cm	1.0	2.0	0.0	5.0	0.0	0.0	1.0	7.0
30-50cm	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	1.0	2.0	1.0	5.0	0.0	2.0	0.7	3.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	70		75		73	
Shrub cover	85		75		60	
Grass/forb cover	15		25		30	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		50		50
High terrace	100		50		50	
Low terrace	0		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 (%)	4		13		20	

Summary of Riparian Zone (0-30m) for all reaches (1 transects)

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

Total hardwoods/1000 ft	549
Total conifers/1000 ft	122
Total conifers >20" dbh/1000 ft	0

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	1.0	0.0
15-30cm	1.0	7.0
30-50cm	0.0	2.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

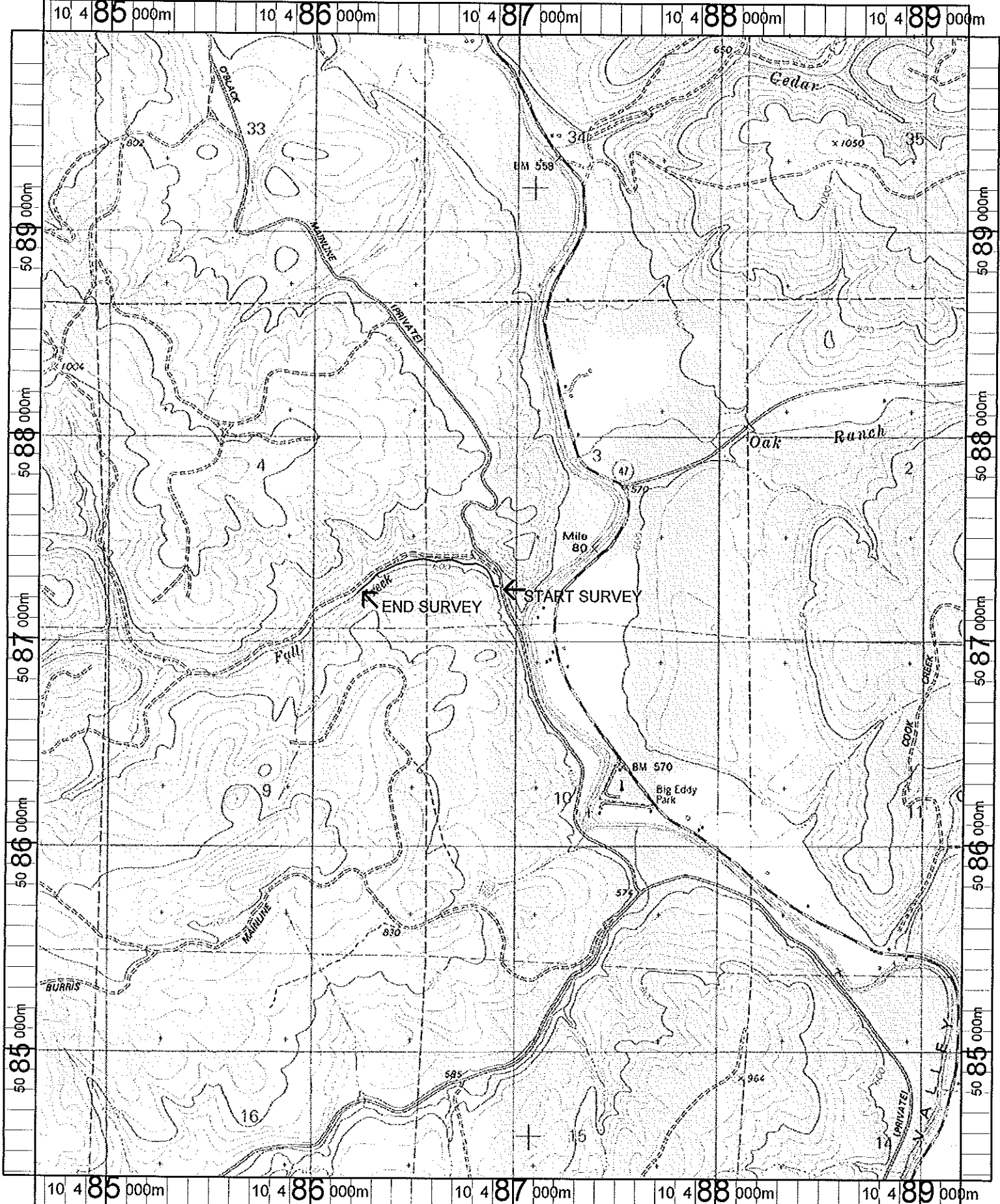
RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

<u>Unit</u>	<u>Side</u>	<u>Zone</u>	<u>Surface</u>	<u>Slope</u>	<u>Cover (percent)</u>				<u>Diameter class (cm)</u>					<u>Notes</u>
					<u>Canopy</u>	<u>Shrub</u>	<u>Grass</u>		<u>3-15</u>	<u>15-30</u>	<u>30-50</u>	<u>50-90</u>	<u>>90</u>	
18	LF	1	HT	4.0	65	80	20	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	
18	LF	2	HS	21.0	75	60	40	Conifer	1	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	LF	3	HS	38.0	70	50	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	RT	1	HT	3.0	75	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
18	RT	2	HT	5.0	75	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	5	0	0	0	
18	RT	3	HT	2.0	75	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	0	0	



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

Location: 10 486835 E 5087147 N
 Caption: FALL CREEK
 RESTORATION SITE
 ODFW 1999