

REACH 1

T9S-R8W-S7SE

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: 17.0 range: 11.0-20.0

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	606	2,092	0
Secondary	81	142	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.1	Width	5.0	6.5	11.0
Depth	0.55	Height	0.4	0.8	1.4
		W:D ratio	12.5	Entrenchment	1.3

Stream Flow Type: LF Water Temp: 15.5-15.5°C
 Avg. Unit Gradient: 0.5% Habitat Units/100m: 6.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	ST
Riparian Vegetation:	G	D3

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	7%	Reach avg: 72%
Undercut Banks	4%	Range: 11-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (>3m x 0.15m)	89	14.7
Volume (m ³)	92	15.2
Key pieces (>10m x 0.6m)	6	1.0

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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
DRY CHANNEL	1	34	1.2	0.00	41	0	100	0	0	0	0	0
POOL-ALCOVE	1	5	2.1	0.90	11	0	90	10	0	0	0	0
POOL-BACKWATER	2	38	2.0	0.40	83	0	18	18	65	0	0	0
POOL-DAMMED	3	84	3.9	1.08	356	0	20	30	50	0	0	0
POOL-ISOLATED	1	4	1.8	0.50	7	0	20	80	0	0	0	0
POOL-LATERAL SCOUR	24	377	3.7	0.74	1,399	0	22	36	41	1	0	0
POOL-PLUNGE	2	16	4.8	0.95	77	0	17	27	51	5	0	0
RIFFLE	7	119	2.0	0.09	236	0	8	8	84	0	0	0
STEP/BEAVER DAM	4	5	2.8	0.02	13	0	14	14	73	0	0	0
STEP/COBBLE	2	6	1.5	0.05	10	0	3	5	93	0	0	0
Total:	47	687	3.1	0.55	2,234	0	Avg:21	27	52	1	0	0

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	7	132	2.8	0.78	457	20.47	0	0.0
Scour Pools	26	392	3.7	0.75	1,477	66.11	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	7	119	2.0	0.09	236	10.58	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	6	11	2.4	0.03	23	1.02	0	0.0
Dry	1	34	1.2	0.00	41	1.83	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	33	48.0
Pools ≥1m deep:	6	8.7
Complex pools (LWD pieces ≥3):	11	16.0
Pool Frequency (channel widths/pool):	4.2	
Residual pool depth (avg)	0.66m	

STREAM SUMMARY

WHISKEY CK (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
47	687	3.1	0.55	2,234	21	27	52	1	0	0	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,477	66.1
Backwater Pools	457	20.5
Glide	0	0.0
Riffle	236	10.6
Rapid	0	0.0
Cascade	0	0.0
Step	23	1.0
Dry	41	1.8

REACH 1 RIPARIAN ZONE VEGETATION SUMMARY REACH 1

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

Total hardwoods/1000 ft	1,189
Total conifers/1000 ft	61
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	5.0	0.0	4.0	1.0	9.5	1.0	18.5
15-30cm	0.0	0.5	0.0	0.0	0.0	0.5	0.0	1.0
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	5.5	0.0	4.0	1.0	10.0	0.3	6.5

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	15		6		40	
Shrub cover	9		4		21	
Grass/forb cover	91		96		79	

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	100		100		75	
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 (%)	0		0		4	

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	1,189
Total conifers/1000 ft	61
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	18.5
15-30cm	0.0	1.0
30-50cm	0.0	0.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

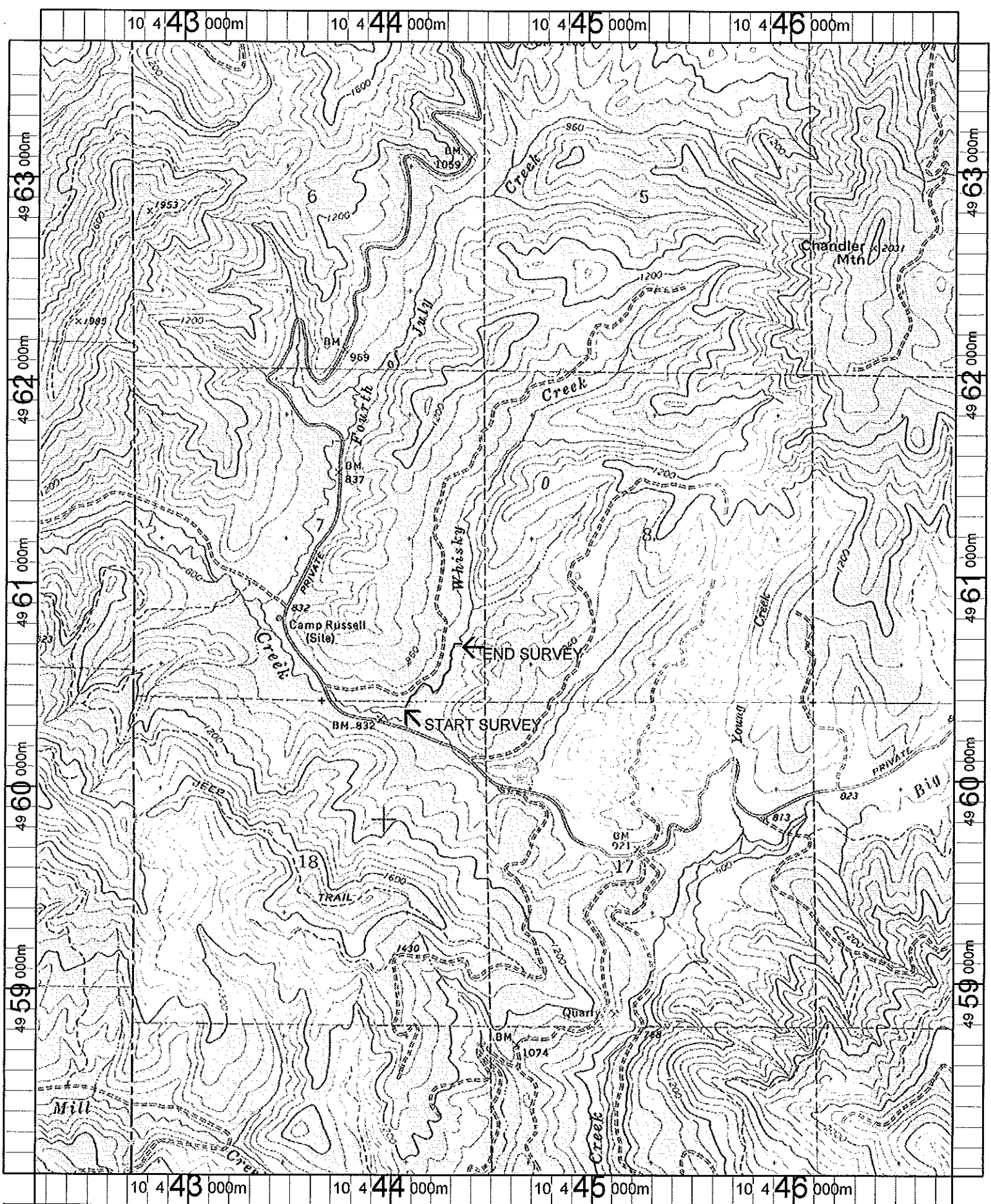
RIPARIAN ZONE VEGETATION

Reach 1

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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	
14	LF	1	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
14	LF	2	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
14	LF	3	HT	0.0	50	5	95	Conifer	0	0	0	0	0	
								Hardwood	10	0	0	0	0	
14	RT	1	HT	0.0	60	30	70	Conifer	0	0	0	0	0	
								Hardwood	10	1	0	0	0	
14	RT	2	HT	0.0	20	0	100	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
14	RT	3	HT	0.0	95	70	30	Conifer	0	0	0	0	0	
								Hardwood	4	1	0	0	0	
26	LF	1	HT	0.0	0	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	LF	2	HT	0.0	0	5	95	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	LF	3	HT	0.0	0	5	95	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
26	RT	1	HT	0.0	0	2	98	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	RT	2	HT	0.0	5	10	90	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
26	RT	3	HS	15.0	15	5	95	Conifer	2	0	0	0	0	
								Hardwood	1	0	0	0	0	



Name: VALSETZ
 Date: 4/24/100
 Scale: 1 inch equals 2000 feet

Location: 10 444438 E 4960848 N
 Caption: WHISKEY CREEK
 RESTORATION SITE
 ODFW 1999