

REACH 1

T14S-R8W-15NE

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: 7.4 range: 1.0-22.0

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	554	1,173	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.0	Width	5.8	25.0	5.6
Depth	0.37	Height	0.5	1.0	0.9
		W:D ratio	12.0	Entrenchment	7.1

Stream Flow Type: MF Water Temp: 13.0-13.0°C
 Avg. Unit Gradient: 0.9% Habitat Units/100m: 9.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	M15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 76%
Undercut Banks	0%	Range: 42-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	75	13.5
Volume (m ³)	121	21.9
Key pieces (≥10m x 0.6m)	12	2.2

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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	6	1.3	0.25	7	0	90	5	5	0	0	0
GLIDE	1	16	2.3	0.25	36	0	30	50	20	0	0	0
POOL-LATERAL SCOUR	31	410	2.3	0.56	924	0	27	55	17	1	0	0
POOL-PLUNGE	1	6	2.3	0.50	14	0	30	55	15	0	0	0
RIFFLE	10	104	1.8	0.11	174	0	23	40	35	3	0	0
STEP/COBBLE	5	11	1.6	0.07	15	0	4	40	56	0	0	0
STEP/LOG	5	2	1.1	0.05	2	0	12	58	30	0	0	0
Total:	54	554	2.0	0.37	1,173	0	Avg:24	50	25	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	0	0	-	-	0	0.00	0	0.0
Scour Pools	32	416	2.3	0.56	938	80.03	0	0.0
Glides	1	16	2.3	0.25	36	3.04	0	0.0
Riffles	10	104	1.8	0.11	174	14.87	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	1	6	1.3	0.25	7	0.63	0	0.0
Step/Falls	10	13	1.3	0.06	17	1.42	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	32	57.8
Pools ≥1m deep:	1	1.8
Complex pools (LWD pieces≥3):	10	18.0
Pool Frequency (channel widths/pool):	3.0	
Residual pool depth (avg)	0.40m	

STREAM SUMMARY

BURCH 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
54	554	2.0	0.37	1,173	24	50	25	1	0	0	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	938	80.0
Backwater Pools	0	0.0
Glide	36	3.0
Riffle	174	14.9
Rapid	0	0.0
Cascade	7	0.6
Step	17	1.4
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	1,361
Total conifers/1000 ft	345
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	3.0	0.7	1.3	0.0	4.0	0.7	8.3
15-30cm	0.0	5.0	2.3	4.0	1.3	2.0	3.7	11.0
30-50cm	0.3	2.7	0.3	0.3	0.7	0.0	1.3	3.0
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	0.3	10.7	3.3	5.7	2.0	6.0	1.9	7.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	81		83		68	
Shrub cover	5		8		3	
Grass/forb cover	93		85		77	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	50		67		83	
High terrace	33		33		17	
Low terrace	17		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 (%)	22		23		32	

Summary of Riparian Zone (0-30m) for all reaches (3 transects)

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

Total hardwoods/1000 ft	1,361
Total conifers/1000 ft	345
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	0.7	8.3
15-30cm	3.7	11.0
30-50cm	1.3	3.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

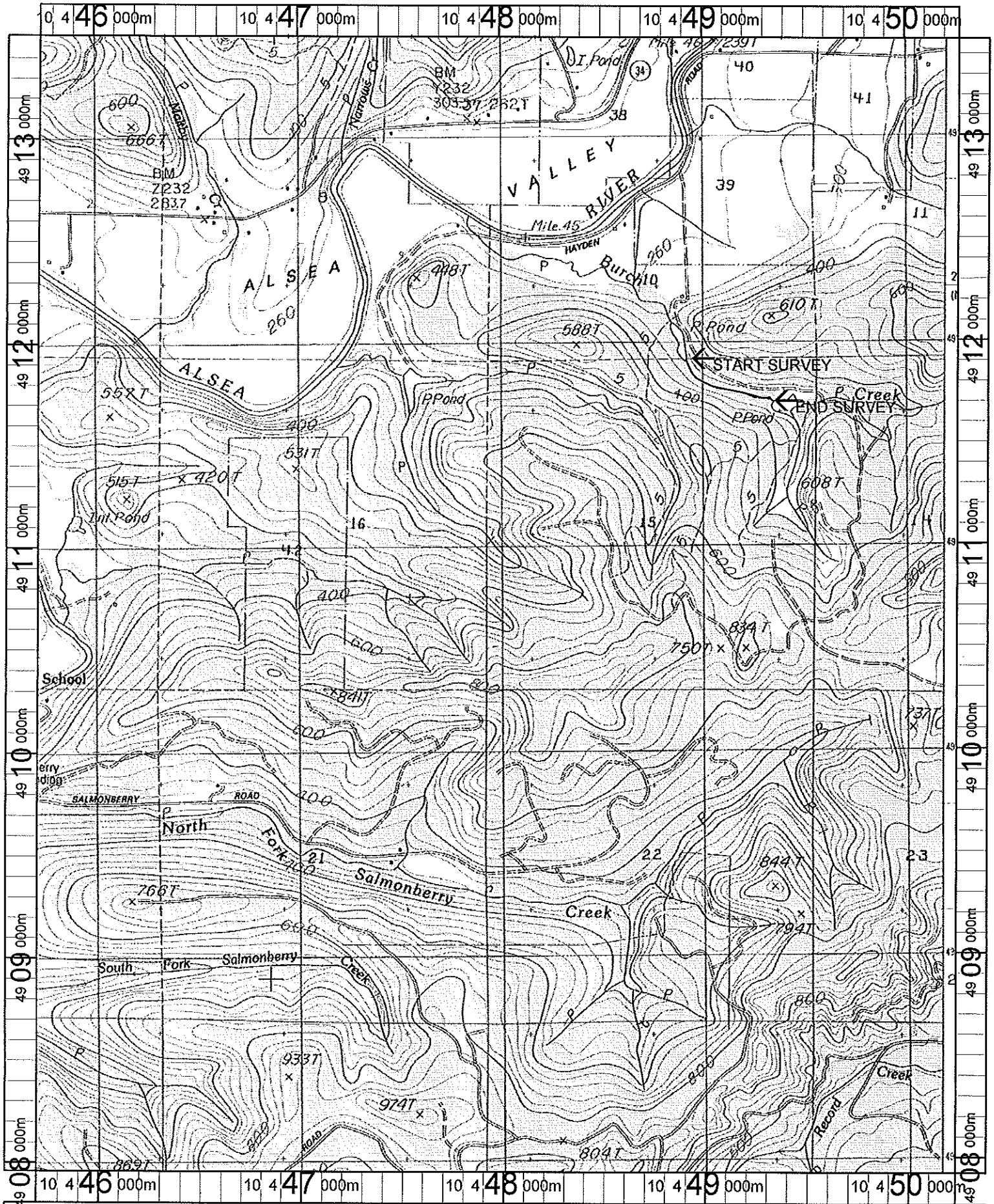
RIPARIAN ZONE VEGETATION

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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	
8	LF	1	LT	0.0	85	0	90	Conifer	0	0	0	0	0	
								Hardwood	1	1	1	0	0	ALDERS
8	LF	2	HS	15.0	80	0	90	Conifer	2	1	0	0	0	
								Hardwood	0	0	0	0	0	
8	LF	3	HS	20.0	60	0	90	Conifer	0	1	1	0	0	
								Hardwood	0	0	0	0	0	10% DEBRIS
8	RT	1	HS	50.0	95	0	95	Conifer	0	0	0	0	0	
								Hardwood	0	2	3	0	0	ALDER
8	RT	2	HS	45.0	90	0	100	Conifer	0	3	1	0	0	
								Hardwood	0	3	0	0	0	VINEMAPLE
8	RT	3	HS	35.0	90	0	90	Conifer	0	1	1	0	0	
								Hardwood	0	4	0	0	0	10% DEBRIS, VINEMAP
28	LF	1	HT	0.0	20	0	100	Conifer	0	0	0	0	0	
								Hardwood	4	4	0	0	0	
28	LF	2	HS	40.0	60	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
28	LF	3	HS	35.0	60	0	50	Conifer	0	0	0	0	0	
								Hardwood	11	0	0	0	0	40% GRAVEL ROAD
28	RT	1	HS	55.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	4	1	0	0	MAPLES, ALDER, OLD
28	RT	2	HS	35.0	80	30	70	Conifer	0	3	0	0	0	
								Hardwood	0	0	0	0	0	
28	RT	3	HS	20.0	10	0	50	Conifer	0	2	0	0	0	
								Hardwood	0	0	0	0	0	50% DEBRIS, DIRT
46	LF	1	HS	25.0	100	10	90	Conifer	0	0	1	0	0	
								Hardwood	4	0	0	0	0	VINEMAPLE
46	LF	2	HT	0.0	90	20	50	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	30% DEBRIS, ALDER
46	LF	3	HT	0.0	90	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALDER
46	RT	1	HT	0.0	95	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	4	3	0	0	
46	RT	2	HT	0.0	95	0	100	Conifer	0	0	0	0	0	
								Hardwood	4	3	1	0	0	ALDER, VINEMAPLE
46	RT	3	HS	80.0	100	20	80	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	



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

Location: 10 447886 E 4910700 N
 Caption: BIRCH CREEK
 RESTORATION SITE
 ODFW 1999