

REACH 1

T10S-R9W-15SW

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: 6.1 range: 2.8-12.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	100		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	706	2,278	0
Secondary	6	4	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width	3.0	6.2	7.3	8.0
Depth	0.38	Height 0.5	0.9	1.2
		W:D ratio 13.7	Entrenchment 1.2	

Stream Flow Type: LF Water Temp: 13.0-13.0°C  
Avg. Unit Gradient: 0.9% Habitat Units/100m: 5.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	
Riparian Vegetation:	D15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 77%
Undercut Banks	9%	Range: 42-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	45	6.4
Volume (m <sup>3</sup> )	25	3.6
Key pieces ( $\geq 10m \times 0.6m$ )	0	0.0

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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	3.5	0.15	115	1	0	28	21	18	3	31
POOL-BEAVR DAM	1	100	5.0	1.20	500	0	40	40	20	0	0	0
POOL-LATERAL SCOUR	21	356	3.4	0.56	1,226	7	9	35	25	5	1	25
RAPID/BOULDERS	1	6	0.6	0.01	4	0	0	5	95	0	0	0
RIFFLE	10	196	1.9	0.15	371	0	0	22	57	7	0	15
STEP/BEAVR DAM	1	3	5.0	0.05	15	10	20	20	5	5	50	0
STEP/BEDROCK	2	10	2.2	0.10	21	2	0	15	8	8	8	63
STEP/COBBLE	2	9	3.9	0.08	32	0	0	5	85	10	0	0
<b>Total:</b>	<b>40</b>	<b>712</b>	<b>3.0</b>	<b>0.38</b>	<b>2,282</b>	<b>20</b>	<b>Avg: 6</b>	<b>28</b>	<b>36</b>	<b>6</b>	<b>2</b>	<b>22</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Area Percent	Large Boulders Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	1	100	5.0	1.20	500	21.91	0	0.0
Scour Pools	21	356	3.4	0.56	1,226	53.71	7	0.6
Glides	2	33	3.5	0.15	115	5.03	1	0.9
Riffles	10	196	1.9	0.15	371	16.24	0	0.0
Rapids	1	6	0.6	0.01	4	0.16	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	5	22	3.4	0.08	67	2.94	12	17.9
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	22	30.9
Pools ≥1m deep:	1	1.4
Complex pools (LWD pieces ≥3):	3	4.2
Pool Frequency (channel widths/pool):	5.2	
Residual pool depth (avg)	0.49m	

STREAM SUMMARY

LONG PRAIRIE CK (PRE SUM 99)

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	
40	712	3.0	0.38	2,282	6	28	36	6	2	22	20

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	1,226	53.7
Backwater Pools	500	21.9
Glide	115	5.0
Riffle	371	16.2
Rapid	4	0.2
Cascade	0	0.0
Step	67	2.9
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	1,687
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	0.3	3.3	0.3	4.7	0.0	11.3	0.7	19.3
15-30cm	0.0	1.0	0.0	1.7	0.3	1.0	0.3	3.7
30-50cm	0.0	2.0	0.0	1.0	0.0	0.3	0.0	3.3
50-90cm	0.0	0.3	0.0	0.0	0.0	1.0	0.0	1.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	0.3	6.7	0.3	7.3	0.3	13.7	0.3	9.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	46		49		48	
Shrub cover	0		16		31	
Grass/forb cover	100		81		73	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		50		50
High terrace	83		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 (%)	5		14		16	

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	1,687
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	0.7	19.3
15-30cm	0.3	3.7
30-50cm	0.0	3.3
50-90cm	0.0	1.3
>90cm	0.0	0.0

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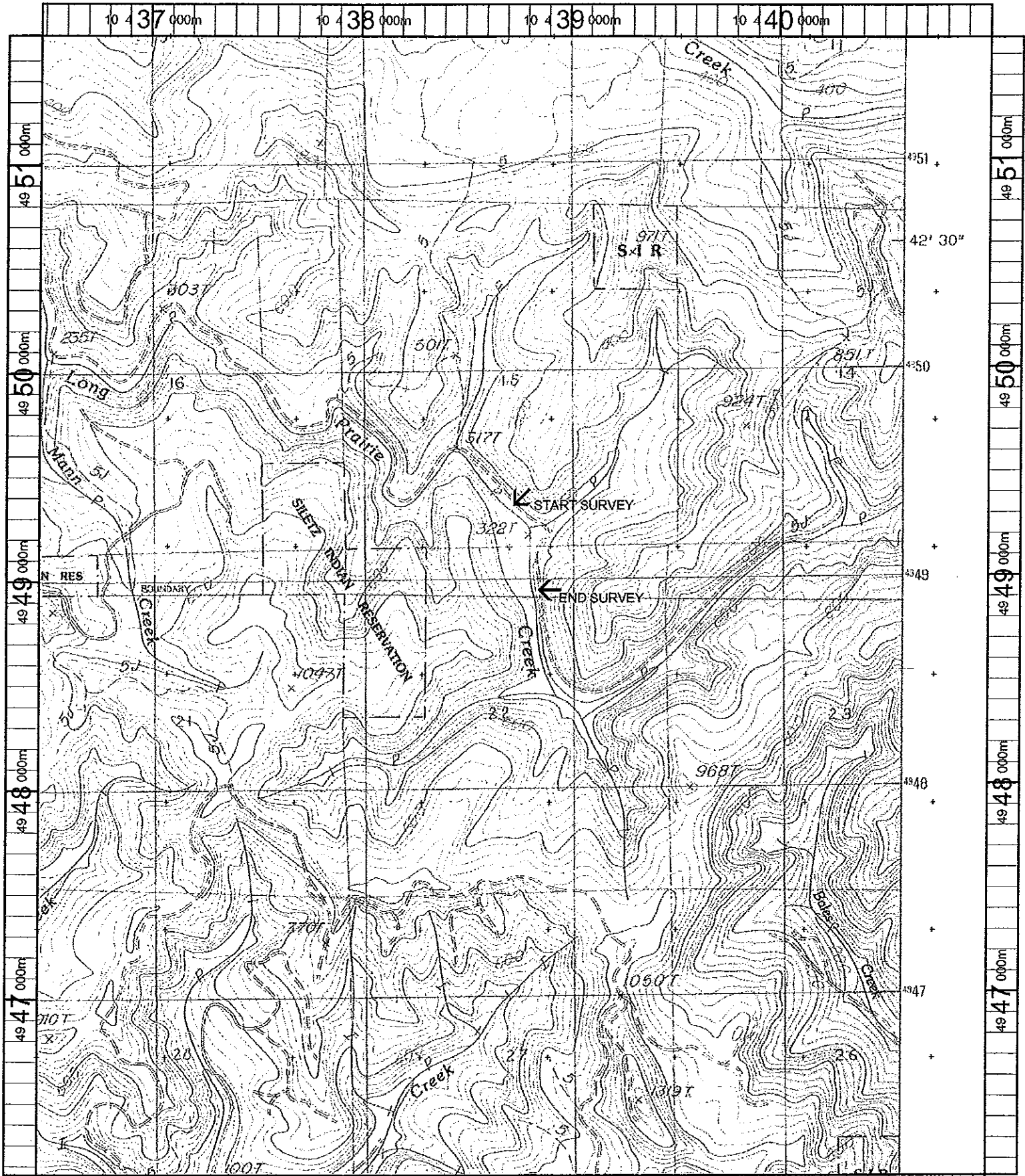
RIPARIAN ZONE VEGETATION

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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	
14	LF	1	HT	0.0	60	0	100	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	1	0	HUCKLEBERRY, ALDER
14	LF	2	HT	5.0	80	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	PACIFIC ELDER/SALMO
14	LF	3	HS	30.0	90	30	70	Conifer	0	0	0	0	0	
								Hardwood	7	2	0	0	0	ALDER
14	RT	1	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
14	RT	2	HS	35.0	20	35	65	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
14	RT	3	HS	30.0	5	85	75	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
24	LF	1	HT	0.0	85	0	100	Conifer	0	0	0	0	0	
								Hardwood	8	0	0	0	0	VINE MAPLE
24	LF	2	HT	0.0	90	0	80	Conifer	0	0	0	0	0	
								Hardwood	10	2	0	0	0	VINE MAPLE
24	LF	3	HT	5.0	90	30	30	Conifer	0	0	0	0	0	
								Hardwood	20	1	0	2	0	40% DEAD LEAVES/BRA
24	RT	1	HS	30.0	50	0	100	Conifer	1	0	0	0	0	
								Hardwood	1	0	0	0	0	DOUGLAS FIR, CASCAR
24	RT	2	HS	25.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	BRACKEN FERN
24	RT	3	HS	25.0	10	0	100	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	CASCARA, BRACKEN FE
40	LF	1	HT	0.0	80	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	3	6	0	0	RED ALDER
40	LF	2	HT	0.0	85	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	3	3	0	0	RED ALDER
40	LF	3	HT	0.0	90	40	60	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	1	0	RED ALDER, PACIFIC
40	RT	1	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
40	RT	2	HS	20.0	20	0	100	Conifer	1	0	0	0	0	
								Hardwood	0	0	0	0	0	CASCARA
40	RT	3	HT	5.0	0	0	100	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	DOUGLAS FIR



Name: EDDYVILLE  
 Date: 11/8/100  
 Scale: 1 inch equals 2000 feet

Location: 10 438617 E 4948855 N  
 Caption: LONG PRAIRIE CREEK UPPER RESTORATION SITE - SILETZ BASIN