

REACH 1

T5N-R8W-S15SE

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: 4.3 range: 3.0-6.0

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	440	1,854	0
Secondary	37	77	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 4.2	Width 10.8	38.4	17.7
Depth 0.46	Height 0.7	1.3	1.1
	W:D ratio 16.8	Entrenchment 3.8	

Stream Flow Type: LF Water Temp: 12.0-12.0°C
 Avg. Unit Gradient: 2.1% Habitat Units/100m: 5.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	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	27%	Reach avg: 42%
Undercut Banks	13%	Range: 0-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	120	27.2
Volume (m ³)	75	17.1
Key pieces ($\geq 10m \times 0.6m$)	0	0.0

REACH 1

T5N-R8W-S15SE

REACH 1

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
POOL-ALCOVE	1	25	1.2	0.65	30	0	90	10	0	0	0	0
POOL-BACKWATER	1	12	3.8	0.50	47	0	10	20	35	35	0	0
POOL-LATERAL SCOUR	5	64	3.9	0.70	231	0	13	24	25	36	2	0
POOL-STRAIGHT SCOUR	6	80	5.6	0.73	463	0	22	25	15	29	9	0
RAPID/BOULDERS	6	126	3.3	0.23	390	3	8	22	15	48	8	0
RIFFLE	7	171	4.5	0.23	771	50	8	16	29	44	4	0
Total:	26	478	4.2	0.46	1,931	53	Avg:15	21	21	38	5	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	2	37	2.5	0.58	77	3.99	0	0.0
Scour Pools	11	143	4.8	0.72	694	35.91	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	7	171	4.5	0.23	771	39.89	50	6.5
Rapids	6	126	3.3	0.23	390	20.21	3	0.8
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	13	27.2
Pools $\geq 1m$ deep:	3	6.3
Complex pools (LWD pieces ≥ 3):	9	18.8
Pool Frequency (channel widths/pool):	3.4	
Residual pool depth (avg)	0.55m	

STREAM SUMMARY

LITTLE HUMBUG CK (PRE 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	
26	478	4.2	0.46	1,931	15	21	21	38	5	0	53

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	694	35.9
Backwater Pools	77	4.0
Glide	0	0.0
Riffle	771	39.9
Rapid	390	20.2
Cascade	0	0.0
Step	0	0.0
Dry	0	0.0

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	457
Total conifers/1000 ft	1,311
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	1.5	8.0	3.0	13.0	3.0	21.0	7.5
15-30cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-50cm	0.5	0.0	0.0	0.0	0.0	0.0	0.5	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	0.5	1.5	8.0	3.0	13.0	3.0	7.2	2.5

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	24		93		100	
Shrub cover	33		64		69	
Grass/forb cover	48		36		31	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		25		100
High terrace	0		0		0	
Low terrace	100		50		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 (%)	14		25		31	

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	457
Total conifers/1000 ft	1,311
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	21.0	7.5
15-30cm	0.0	0.0
30-50cm	0.5	0.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

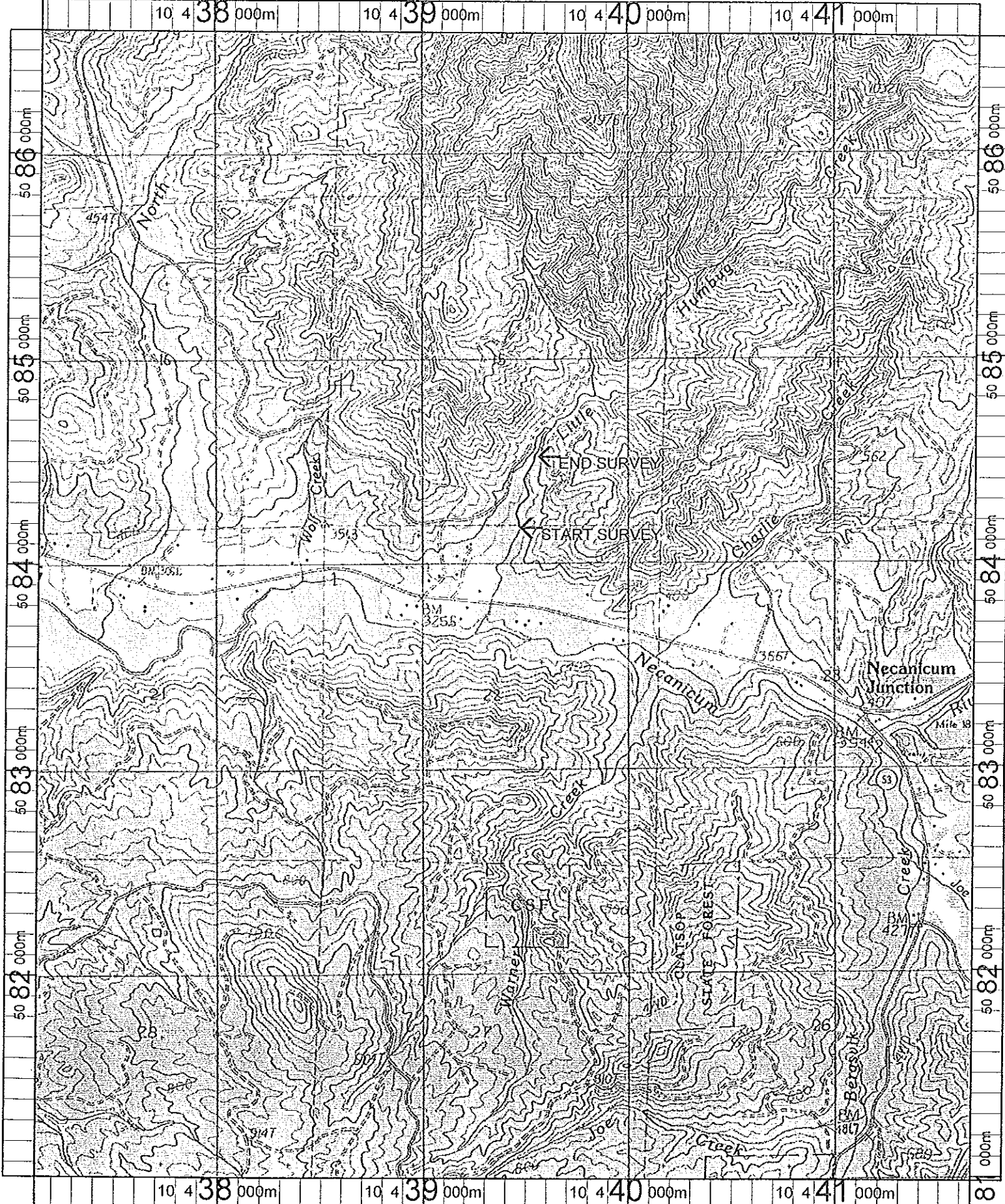
RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

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	
15	LF	1	LT	5.0	0	0	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	LF	2	LT	10.0	100	75	25	Conifer	5	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	LF	3	HS	15.0	100	75	25	Conifer	7	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	RT	1	LT	5.0	0	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
15	RT	2	HS	20.0	100	90	10	Conifer	4	0	0	0	0	
								Hardwood	1	0	0	0	0	
15	RT	3	HS	40.0	100	90	10	Conifer	3	0	0	0	0	
								Hardwood	6	0	0	0	0	
26	LF	1	LT	40.0	75	40	60	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
26	LF	2	LT	60.0	85	60	40	Conifer	1	0	0	0	0	
								Hardwood	5	0	0	0	0	
26	LF	3	HS	50.0	100	50	50	Conifer	6	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	RT	1	LT	5.0	20	0	100	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
26	RT	2	HSS	10.0	85	30	70	Conifer	6	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	RT	3	HS	19.0	100	60	40	Conifer	10	0	0	0	0	
								Hardwood	0	0	0	0	0	



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

Location: 10 439319 E 5083772 N
 Caption: LITTLE HUMBUG CREEK
 RESTORATION SITE
 ODFW 1999