

REACH 1

T2N-R10W-S16E

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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: 8.0 range: 6.5-9.0

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	455	1,399	0
Secondary	71	167	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 3.2	Width 5.6	16.9	25.1
Depth 0.29	Height 0.5	0.9	1.1
	W:D ratio 11.8	Entrenchment 3.1	

Stream Flow Type: LF Water Temp: 6.0-6.0°C
 Avg. Unit Gradient: 3.4% Habitat Units/100m: 9.9

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	29%	Reach avg: 89%
Undercut Banks	15%	Range: 67-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	97	21.3
Volume (m ³)	92	20.1
Key pieces ($\geq 10m \times 0.6m$)	6	1.3

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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/BOULDERS	3	27	2.2	0.10	59	5	8	27	47	18	0	0
CULVERT CROSSING	1	26	2.6	0.30	67	3	10	20	60	10	0	0
POOL-ISOLATED	1	2	3.8	0.40	8	0	50	50	0	0	0	0
POOL-LATERAL SCOUR	15	130	3.0	0.56	404	3	28	35	25	12	0	0
POOL-PLUNGE	5	24	4.6	0.54	106	0	29	23	41	7	0	0
RAPID/BOULDERS	10	144	3.1	0.11	452	19	12	18	53	16	2	0
RIFFLE	11	168	2.9	0.15	457	5	19	17	48	16	0	0
STEP/COBBLE	1	3	1.7	0.10	5	1	5	10	50	35	0	0
STEP/LOG	5	2	3.8	0.06	8	1	25	29	34	12	0	0
Total:	52	526	3.2	0.29	1,565	37	Avg:21	25	39	14	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	Boulders #/100m ²
Dammed & BW Pools	1	2	3.8	0.40	8	0.51	0	0.0
Scour Pools	20	154	3.4	0.56	510	32.57	3	0.6
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	11	168	2.9	0.15	457	29.20	5	1.1
Rapids	10	144	3.1	0.11	452	28.85	19	4.2
Cascades	3	27	2.2	0.10	59	3.78	5	8.5
Step/Falls	6	5	3.5	0.07	13	0.80	2	16.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	21	39.9
Pools \geq 1m deep:	0	0.0
Complex pools (LWD pieces \geq 3):	4	7.6
Pool Frequency (channel widths/pool):	4.5	
Residual pool depth (avg)	0.37m	

STREAM SUMMARY

JETTY CREEK (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	
52	526	3.2	0.29	1,565	21	25	39	14	0	0	37

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	510	32.6
Backwater Pools	8	0.5
Glide	0	0.0
Riffle	457	29.2
Rapid	452	28.8
Cascade	59	3.8
Step	13	0.8
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	711
Total conifers/1000 ft	366
Total conifers >20" dbh/1000 ft	102
Total conifers >35" dbh/1000 ft	20

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	0.7	0.0	1.3	0.0	1.0	2.7	3.0	2.7
15-30cm	0.3	1.3	0.7	1.3	0.0	0.3	1.0	3.0
30-50cm	0.0	1.7	0.3	2.0	0.0	1.0	0.3	4.7
50-90cm	0.0	1.0	1.0	0.0	0.3	0.3	1.3	1.3
>90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
Total/100m ²	1.0	4.0	3.7	3.3	1.3	4.3	2.0	3.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	78		81		63	
Shrub cover	28		49		47	
Grass/forb cover	51		37		13	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	33		50		50	
High terrace	50		50		33	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		17	
Riprap	0		0		0	
Surface slope (%)	35		35		14	

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	711
Total conifers/1000 ft	366
Total conifers >20" dbh/1000 ft	102

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	3.0	2.7
15-30cm	1.0	3.0
30-50cm	0.3	4.7
50-90cm	1.3	1.3
>90cm	0.3	0.0

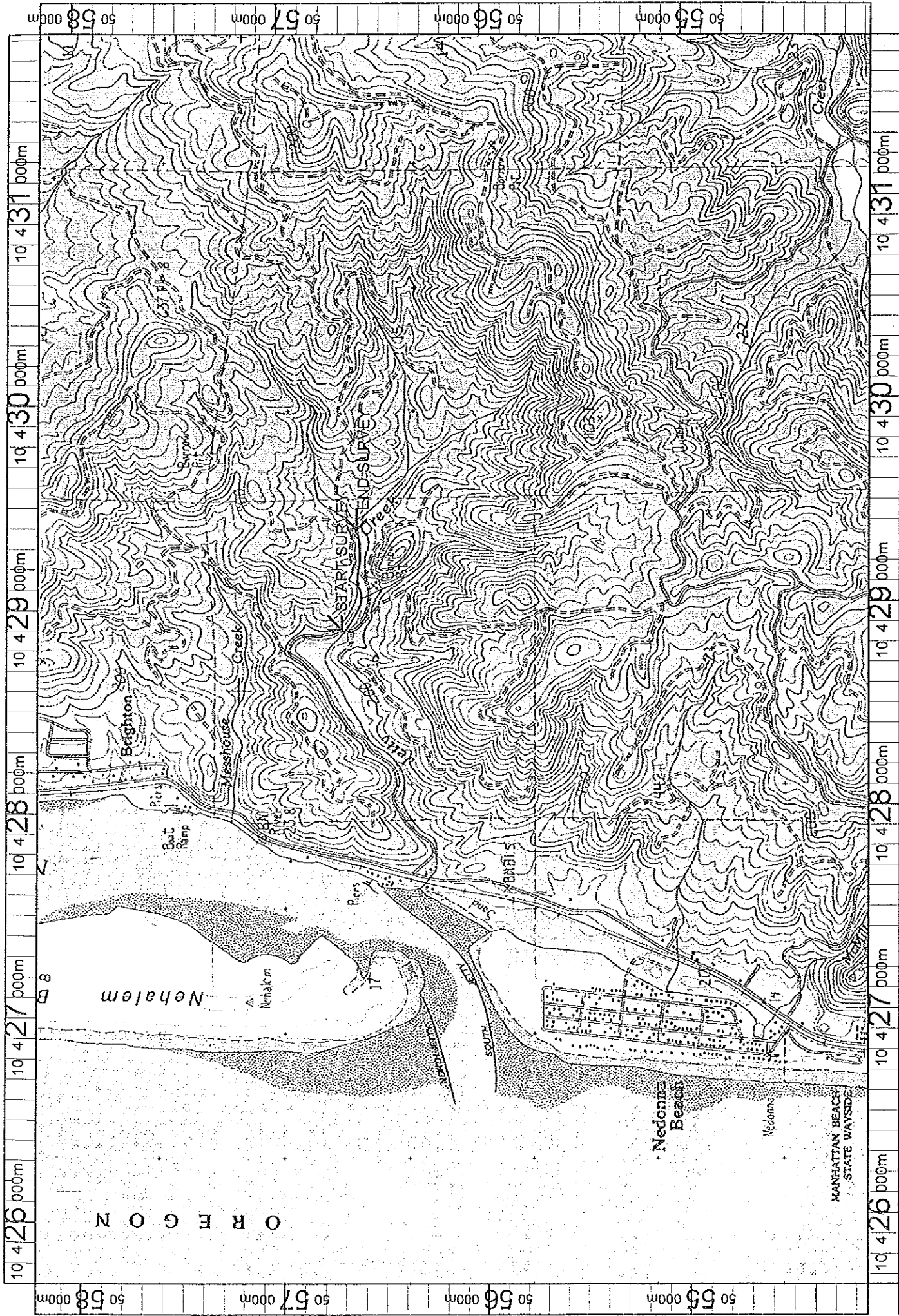
RIPARIAN ZONE VEGETATION

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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	
24	LF	1	HT	5.0	75	50	45	Conifer	0	0	0	0	0	
								Hardwood	0	0	3	2	0	
24	LF	2	HT	6.0	95	15	60	Conifer	0	0	0	0	1	
								Hardwood	0	0	0	0	0	
24	LF	3	HT	10.0	85	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
24	RT	1	HS	35.0	85	5	90	Conifer	2	0	0	0	0	
								Hardwood	0	0	0	1	0	
24	RT	2	HS	50.0	75	10	80	Conifer	3	0	1	0	0	
								Hardwood	0	0	0	0	0	ROAD CROSSING
24	RS	3	HS	20.0	70	0	30	Conifer	0	0	0	1	0	
								Hardwood	0	0	0	0	0	
38	LF	1	HT	4.0	70	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	1	2	0	0	
38	LF	2	HT	6.0	80	90	1	Conifer	1	1	0	0	0	
								Hardwood	0	0	2	0	0	
38	LF	3	HS	35.0	60	90	10	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	1	0	
38	RT	1	HT	20.0	75	40	50	Conifer	0	1	0	0	0	
								Hardwood	0	1	0	0	0	
38	RT	2	HS	75.0	70	90	0	Conifer	0	0	0	3	0	
								Hardwood	0	0	0	0	0	
38	RT	3	RB	6.0	20	15	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	ROAD CROSSING
45	LF	1	6	85.0	80	10	0	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
45	LF	2	HT	4.0	85	80	10	Conifer	0	0	0	0	0	
								Hardwood	0	1	1	0	0	
45	LF	3	HT	7.0	85	80	10	Conifer	0	0	0	0	0	
								Hardwood	0	1	3	0	0	
45	RT	1	HS	60.0	85	15	70	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
45	RT	2	HS	70.0	80	10	70	Conifer	0	1	0	0	0	
								Hardwood	0	3	3	0	0	
45	RT	3	HS	3.0	60	5	10	Conifer	3	0	0	0	0	
								Hardwood	7	0	0	0	0	



Location: 10 428645 E 5056131 N
 Caption: JETTY CREEK
 RESTORATION SITE
 ODFW 1999

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