

REACH 1

T05N-R08W-S24SE

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	3.4	VWI Range:	1.4 - 5.7

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	579	4,828	0
Secondary	22	45	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	7.2	Width	13.9	17.0	20.4
Depth	0.42	Height	0.6	1.1	1.4
		W:D ratio	24.7	Entrenchment	1.3
Stream Flow Type:	LF	Water temp (C):		11.0 - 11.0	
Avg. Unit Gradient:	1.2%	Habitat Units/100m:		5.2	

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	8%	Reach avg: 89%
Undercut Banks:	6%	Range: 56 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	40	6.9
Volume (m ³):	34	5.9
Key pieces (>=10m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

EAST HUMBUG CREEK PRE-TX (NC-172)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/3/02

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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	Cbl	Bldr	Bdrk	
POOL-BACKWATER	3	16	2.0	0.20	29	2	5	28	37	27	3	0	
POOL-ISOLATED	1	2	1.5	0.15	3	0	100	0	0	0	0	0	
POOL-LATERAL SCOUR	9	252	9.2	0.92	2,396	33	6	9	15	22	4	44	
POOL-STRAIGHT SCOUR	2	57	5.8	0.60	343	21	0	10	15	18	8	50	
RAPID/BOULDERS	3	59	7.6	0.18	508	51	0	4	23	47	24	3	
RIFFLE	8	183	6.4	0.16	1,249	41	1	6	24	38	11	20	
STEP/COBBLE	4	33	9.7	0.11	343	6	0	1	30	65	4	0	
Total:	30	601	7.2	0.42	4,872	154	Avg 6	8	22	34	8	22	

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	4	18	1.9	0.19	32	0.66%	2	6.2
Scour Pools	11	309	8.6	0.86	2,739	56.22%	54	2.0
Glides	0	0			0	0.00%	0	0.0
Riffles	8	183	6.4	0.16	1,249	25.63%	41	3.3
Rapids	3	59	7.6	0.18	508	10.43%	51	10.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	4	33	9.7	0.11	343	7.05%	6	1.7
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY		
	Total	# / Km
All Pools:	15	25.9
Pools >=1m deep:	4	6.9
Complex pools (LWD pieces>=3):	4	6.9
Pool frequency (channel widths/pool):	2.9	
Residual pool depth (avg):	0.70	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	772
Total conifers/1000 ft	244
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	1.0	1.7	0.3	1.0	0.0	3.0	1.3
15-30cm	0.3	2.3	0.7	2.3	0.0	3.3	1.0	8.0
30-50cm	0.0	1.0	0.0	1.7	0.0	0.7	0.0	3.3
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/100m2	0.7	4.3	2.3	4.3	1.0	4.0	1.3	4.2

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	72	84	77
Shrub cover	40	55	63
Grass/forb cover	62	41	34

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	33	67	67
High terrace	50	33	33
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 (%)	14	15	8

RIPARIAN ZONE VEGETATION

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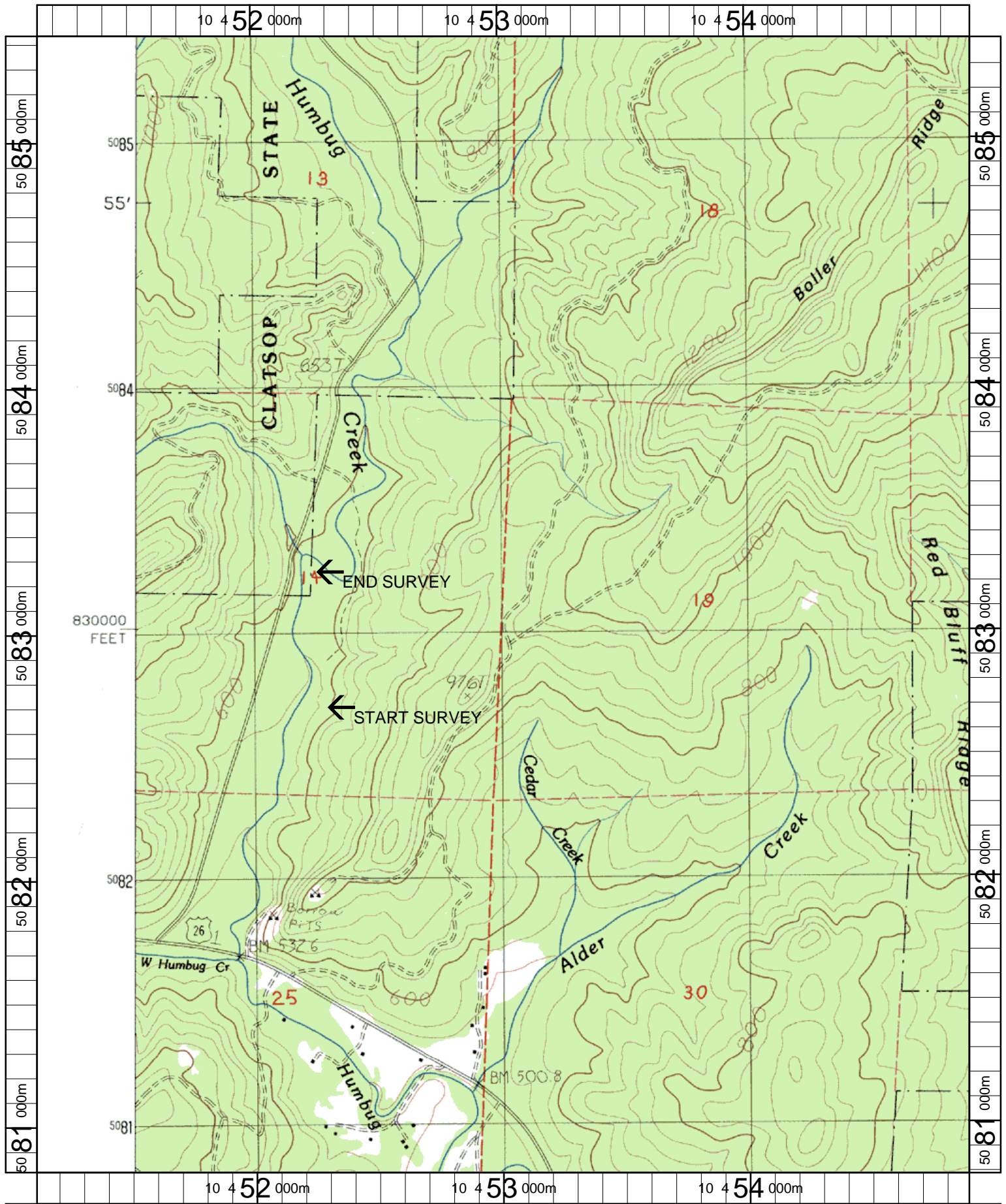
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
7	LF	1	HT	8	60	60	40	Conifer							
								Hardwood				1			
7	LF	2	HT	2	85	60	40	Conifer							
								Hardwood				4			
7	LF	3	HT	-4	95	75	25	Conifer							
								Hardwood							
7	RT	1	HT	35	25	55	45	Conifer							PARTIAL HS
								Hardwood							
7	RT	2	HS	68	65	35	40	Conifer							
								Hardwood							
7	RT	3	HS	4	15	30	55	Conifer							REPLANTED
								Hardwood				3			CLEARCUT
15	LF	1	HS	35	70	80	30	Conifer							
								Hardwood				4			
15	LF	2	HS	12	70	70	30	Conifer	4						
								Hardwood							
15	LF	3	HS	10	70	75	25	Conifer	3						
								Hardwood							
15	RT	1	LT	3	95	20	80	Conifer							
								Hardwood			1	1			
15	RT	2	HT	2	95	65	35	Conifer							
								Hardwood	1	2					
15	RT	3	HT	13	85	55	45	Conifer							
								Hardwood			1	2			
20	LF	1	HS	5	95	10	90	Conifer	1	1					
								Hardwood	3	1					
20	LF	2	HS	2	95	30	70	Conifer	1	2					
								Hardwood							
20	LF	3	HS	15	100	90	10	Conifer							
								Hardwood			3				
20	RT	1	HT	-4	85	15	85	Conifer							
								Hardwood			1	1			
20	RT	2	HS	6	95	70	30	Conifer							
								Hardwood			5	1			
20	RT	3	HS	8	95	55	45	Conifer							
								Hardwood			3				

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 172 EAST HUMBUG CREEK PRE-TX (NC-

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RB	00	10.9	BV	START SURVEY	SMALL JAM AT START
2	LP	00	47		CLEARCUT ON RIGHT	
7	LP	00	145.8	/LA	RIP#1	RIP #1
8	RB	01	180.8	/TJ	/TJ	
9	SC	11	180.8			SUB UNIT POOL .4M
15	RI	00	303.3		RIP#2	
19	SP	00	385.1		FRY	
20	RI	00	398.8		RIP#3	RIP#3
22	SC	00	428.7			SUB UNIT POOL
24	LP	01	499.4		COHO FRY	
30	SC	00	578.8		END SURVEY	END SURVEY



Name: VINEMAPLE
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 453009 E 5083114 N
 Caption: EAST HUMBUG CREEK RESTORATION SITE - NEHALEM BASIN