

REACH SUMMARY

REACH 0

T5N-R10W-S13NW

REACH 0

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: 6.6 range: 5.0-8.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	100	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	524	2,942	0
Secondary	188	641	4

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>		<u>First Terrace</u>	
Width	4.9	Width	10.3		17.5		18.4
Depth	0.44	Height	0.5		1.0		1.0
		W:D ratio	20.6	Entrenchment	1.7		

Stream Flow Type: LF Water Temp: 13.0-13.0°C
 Avg. Unit Gradient: 1.2% Habitat Units/100m: 8.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	C30	M15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	16%	Reach avg: 80%
Undercut Banks	14%	Range: 28-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	165	31.5
Volume (m ³)	321	61.3

HABITAT UNIT SUMMARY

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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
DRY CHANNEL	2	42	5.1	0.00	216	0	0	0	15	55	31	0
DRY UNITS	1	5	2.5	0.00	13	0	50	50	0	0	0	0
POOL-BACKWATER	6	32	2.2	0.35	74	1	10	18	31	33	8	0
POOL-DAMMED	1	12	2.0	0.40	24	0	70	5	10	15	0	0
POOL-ISOLATED	2	15	2.7	0.55	45	0	25	5	10	25	35	0
POOL-LATERAL SCOUR	18	251	5.6	0.72	1,440	0	6	15	32	37	9	0
POOL-STRAIGHT SCOUR	6	60	5.1	0.58	308	0	28	14	15	28	13	3
PUDDLED CHANNEL	1	25	2.6	0.40	64	0	12	12	12	35	31	0
RAPID/BOULDERS	1	22	6.3	0.20	139	0	0	0	20	30	50	0
RIFFLE	13	216	5.4	0.23	1,164	0	2	11	31	43	13	0
RIFFLE W/ POCKETS	1	28	2.0	0.30	55	0	80	10	5	5	0	0
STEP/COBBLE	4	6	6.9	0.19	39	0	0	5	19	54	23	0
STEP/LOG	1	0	5.4	0.10	2	0	0	35	45	20	0	0
Total:	57	712	4.9	0.44	3,583	1	Avg:11	13	26	36	13	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Wetted Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	9	59	2.3	0.40	142	3.97	1	0.7
Scour Pools	24	311	5.5	0.69	1,749	48.80	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	14	244	5.1	0.24	1,220	34.03	0	0.0
Rapids	1	22	6.3	0.20	139	3.87	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	5	6	6.6	0.17	42	1.16	0	0.0
Dry	4	71	3.8	0.10	293	8.16	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	33	46.3
Pools ≥1m deep:	3	4.2
Complex pools (LWD pieces≥3):	10	14.0
Pool Frequency (channel widths/pool):	2.1	
Residual pool depth (avg)	0.53m	

STREAM SUMMARY

KLOOTCHIE CREEK (POST-TX)

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	
57	712	4.9	0.44	3,583	11	13	26	36	13	0	1

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,749	48.8
Backwater Pools	142	4.0
Glide	0	0.0
Riffle	1,220	34.0
Rapid	139	3.9
Cascade	0	0.0
Step	42	1.2
Dry	293	8.2

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	549
Total conifers/1000 ft	671
Total conifers >20" dbh/1000 ft	41
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	2.3	2.3	0.3	0.0	0.0	2.3	2.7
15-30cm	0.7	2.3	1.0	1.7	2.3	1.7	4.0	5.7
30-50cm	0.3	0.3	2.0	0.3	1.7	0.0	4.0	0.7
50-90cm	0.3	0.0	0.0	0.0	0.3	0.0	0.7	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	1.3	5.0	5.3	2.3	4.3	1.7	3.7	3.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	69		61		74	
Shrub cover	33		27		9	
Grass/forb cover	60		50		55	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		0		17
High terrace	83		83		67	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		17	
Roadbed/Railroad	0		17		0	
Riprap	0		0		0	
Surface slope (%)	4		2		3	

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	549
Total conifers/1000 ft	671
Total conifers >20" dbh/1000 ft	41

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	2.3	2.7
15-30cm	4.0	5.7
30-50cm	4.0	0.7
50-90cm	0.7	0.0
>90cm	0.0	0.0

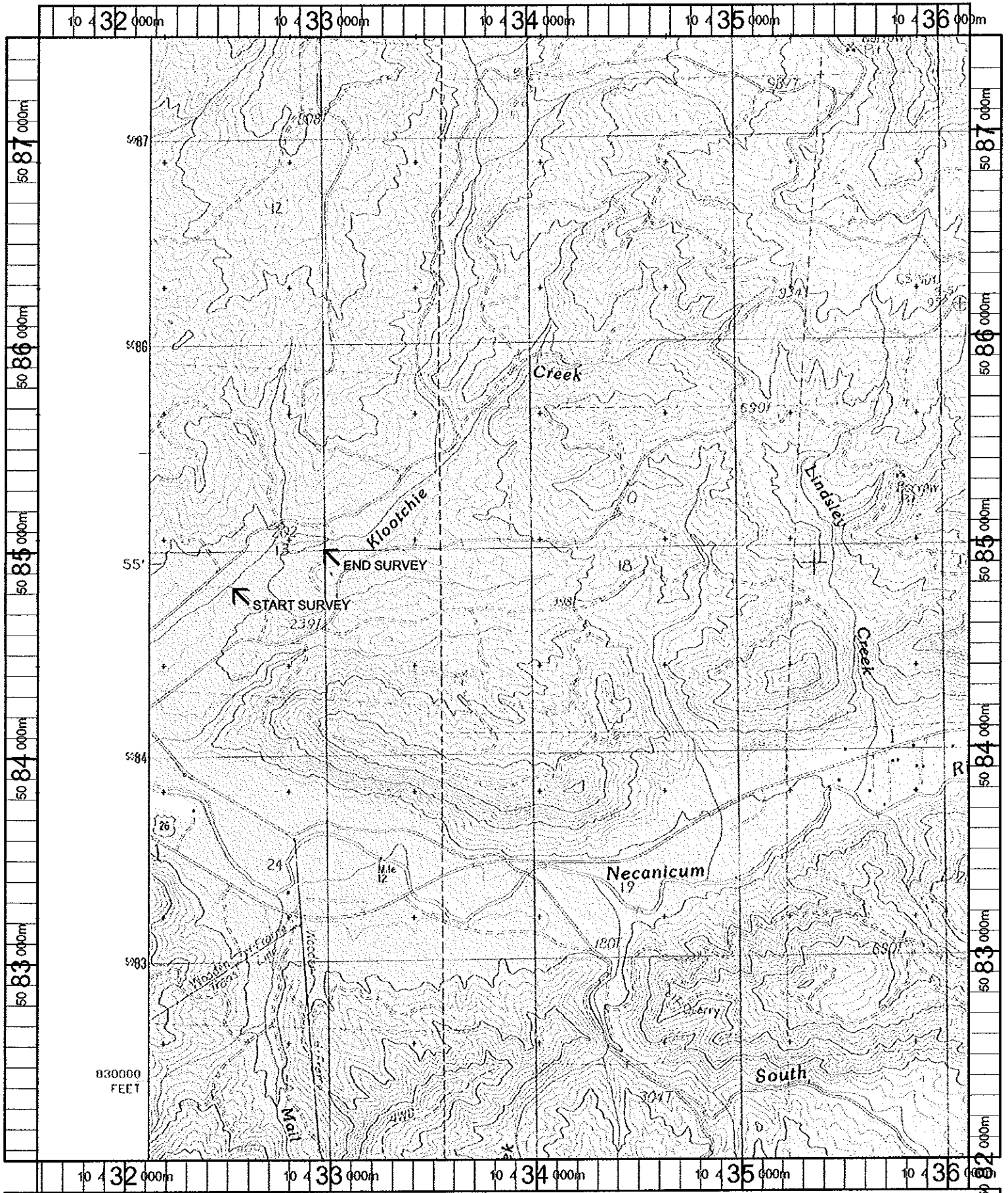
RIPARIAN ZONE VEGETATION

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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	
2	LF	1	HT	8.0	60	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
2	LF	2	RB	0.0	10	10	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
2	LF	3	HS	12.0	85	0	50	Conifer	0	3	0	0	0	
								Hardwood	0	0	0	0	0	
2	RT	1	HT	6.0	70	0	100	Conifer	0	0	0	0	0	
								Hardwood	1	2	1	0	0	
2	RT	2	HT	2.0	80	0	80	Conifer	0	1	1	0	0	
								Hardwood	0	1	1	0	0	
2	RT	3	HT	0.0	75	0	80	Conifer	0	0	2	0	0	
								Hardwood	0	0	0	0	0	
26	LF	1	HT	2.0	50	70	30	Conifer	0	1	0	1	0	
								Hardwood	0	1	0	0	0	
26	LF	2	HT	1.0	75	30	40	Conifer	6	1	0	0	0	
								Hardwood	0	0	0	0	0	
26	LF	3	HT	2.0	85	0	30	Conifer	0	0	0	1	0	
								Hardwood	0	2	0	0	0	
26	RT	1	HT	3.0	75	30	70	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
26	RT	2	HT	1.0	80	40	60	Conifer	0	0	3	0	0	
								Hardwood	0	1	0	0	0	
26	RT	3	SC	0.0	65	40	60	Conifer	0	2	1	0	0	
								Hardwood	0	3	0	0	0	
48	LF	1	LT	1.0	80	40	40	Conifer	0	1	0	0	0	
								Hardwood	2	1	0	0	0	
48	LF	2	HT	3.0	70	30	70	Conifer	0	0	2	0	0	
								Hardwood	1	2	0	0	0	
48	LF	3	HT	2.0	80	5	60	Conifer	0	0	2	0	0	
								Hardwood	0	0	0	0	0	
48	RT	1	HT	1.0	80	40	40	Conifer	0	0	1	0	0	
								Hardwood	2	1	0	0	0	
48	RT	2	HT	2.0	50	50	30	Conifer	1	1	0	0	0	
								Hardwood	0	1	0	0	0	
48	RT	3	HT	0.0	55	10	50	Conifer	0	2	0	0	0	
								Hardwood	0	0	0	0	0	



Name: NECANICUM JUNCTION
 Date: 11/7/100
 Scale: 1 inch equals 2000 feet

Location: 10 433767 E 5084737 N
 Caption: KLOODCHIE CREEK RESTORATION SITE - NECANICUM BASIN

STREAM HABITAT STATUS SHEET

STREAM Kloutchie Creek (Sum 00 Post Rest)

BASIN Necanicum

Entered by: (initial) JB

Analyzed by: _____

Map Work by: _____

DISTRICT: _____

CONTRACT: _____

CREW: JB/SIA

✓	PROCESS	DATE	FILENAME	COMMENTS
	REACH	10/12/00	KLO HR.DBF	
	UNIT 1	/ /	" U1.DBF	
	UNIT 2	/ /	" U2.DBF	
	UNIT CHECK	/ /	" CHK.DBF	
	WOOD	/ /	" WD.DBF	
	RIPARIAN	/ /	" RP.DBF	
	CALIBRATION	/ /	CAL.XLS	
	EXPANDED WOOD	/ /	" WE.DBF	
	UNIT LINK	/ /	// UX.DBF	
	UNIT LINK with WOOD	/ /	// UX2.DBF	
	HABITAT PROFILES	/ /	PRO.XLS	
	<i>reminder</i> COR_LENGTH corrected as well as COR_AREA in dbf file			
	<i>reminder</i> SLOPE corrected in dbf file			
	HABITAT REPORT LINK	/ /	// LNK.DBF	
	RIPARIAN LINK	/ /	// RLK.DBF	
	COMMENT SUMMARY	/ /	COM.XLS	
	Check that report primary channel length is equal to Comment Codes end length			
	HABITAT BAR GRAPHS	/ /	BAR.DBF	
	COVER DOCUMENT	/ /	RPT.DOC	
	MAP SUMMARY	/ /	
	PHOTOS	/ /	

NOTES:

BD
 BV
 CC
 MF
 DS = 2
 HI = 16

Jan 10