

REACH 1

T19S-R08W-S26SW

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	5.0	VWI Range:	5 - 5

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	517	2,361	0
Secondary	14	13	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.9	Width	7.1	10.1	11.5
Depth	0.35	Height	0.5	0.9	1.3
		W:D ratio	15.8	Entrenchment	1.4
Stream Flow Type:	LF	Water temp (C): 16.5 - 16.5			
Avg. Unit Gradient:	0.8%	Habitat Units/100m: 6.8			

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	9%	Reach avg: 97%
Undercut Banks:	16%	Range: 76 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	68	13.2
Volume (m ³):	30	5.7
Key pieces (>=10m x 0.60m):	1	0.2

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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	
DRY CHANNEL	1	5	1.0	0.00	5	0	33	22	39	6	0	0	
POOL-BACKWATER	1	5	1.0	0.20	5	2	25	0	50	13	13	0	
POOL-LATERAL SCOUR	18	329	4.9	0.56	1,694	30	16	11	49	15	3	6	
POOL-STRAIGHT SCOUR	1	24	3.7	0.40	87	4	10	0	10	0	0	80	
RAPID/BOULDERS	2	20	1.3	0.13	32	0	20	10	45	25	0	0	
RIFFLE	10	143	3.7	0.12	538	16	7	7	69	17	1	0	
STEP/BEDROCK	1	2	1.8	0.07	4	0	0	5	5	0	0	90	
STEP/COBBLE	1	4	2.5	0.10	9	0	15	15	30	40	0	0	
Total:	35	531	3.9	0.35	2,374	52	Avg 14	9	51	16	2	8	

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	1	5	1.0	0.20	5	0.22%	2	38.5	
Scour Pools	19	352	4.8	0.55	1,781	75.03%	34	1.9	
Glides	0	0			0	0.00%	0	0.0	
Riffles	10	143	3.7	0.12	538	22.66%	16	3.0	
Rapids	2	20	1.3	0.13	32	1.33%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	2	6	2.2	0.09	13	0.55%	0	0.0	
Dry	1	5	1.0	0.00	5	0.21%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	20	38.7
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	8	15.5
Pool frequency (channel widths/pool):	3.7	
Residual pool depth (avg):	0.46	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1	REACH 1
Summary of Riparian Zone (0-30m) 3 transects	
Total hardwoods/1000	1280
Total conifers/1000 ft	163
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	2.7	0.0	2.3	2.3	4.0	2.3	9.0
15-30cm	0.0	3.7	0.0	2.7	0.0	3.3	0.0	9.7
30-50cm	0.0	1.0	0.0	0.7	0.3	0.7	0.3	2.3
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	0.0	7.3	0.0	5.7	2.7	8.0	0.9	7.0

Canopy closure and ground cover

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Canopy closure	93	92	95
Shrub cover	68	33	48
Grass/forb cover	32	63	35

Predominant landform in each zone

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Hillslope	33	17	67
High terrace	67	50	33
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	33	0
Riprap	0	0	0
Surface slope (%)	12	7	24

RIPARIAN ZONE VEGETATION

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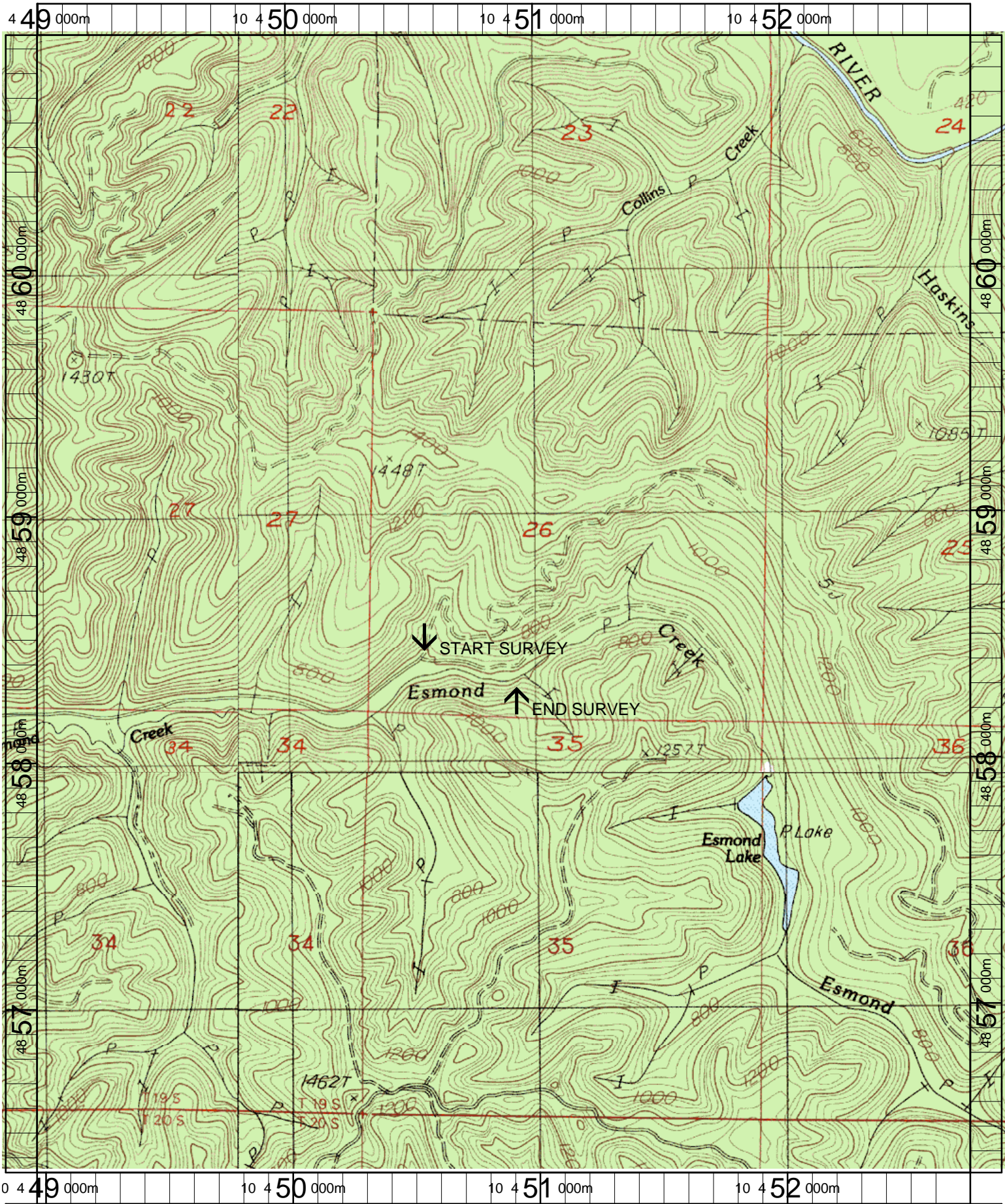
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
12	LF	1	HS	40	85	30	70	Conifer							
								Hardwood	3						
12	LF	2	HS	40	90	30	70	Conifer							
								Hardwood							
12	LF	3	HS	40	90	10	90	Conifer							
								Hardwood							
12	RT	1	HT	0	100	100	0	Conifer							
								Hardwood		4					
12	RT	2	HT	0	80	90	10	Conifer							
								Hardwood							
12	RT	3	HT	0	80	90	10	Conifer							
								Hardwood	1	1	2				
21	LF	1	HT	0	100	90	10	Conifer							
								Hardwood							
21	LF	2	RB	0	90	0	80	Conifer							
								Hardwood	4	3	1				
21	LF	3	HS	34	100	10	40	Conifer	1		1				
								Hardwood	6						
21	RT	1	HT	0	70	60	40	Conifer							
								Hardwood	1	4					
21	RT	2	HT	0	90	10	90	Conifer							
								Hardwood		5	1				
21	RT	3	HS	10	100	70	30	Conifer							
								Hardwood	2	1					
28	LF	1	HS	34	100	60	40	Conifer							
								Hardwood		2	2				
28	LF	2	RB	0	100	20	80	Conifer							
								Hardwood	2						
28	LF	3	HS	60	100	20	30	Conifer	6						
								Hardwood		3					
28	RT	1	HT	0	100	70	30	Conifer							
								Hardwood	4	1	1				
28	RT	2	HT	0	100	50	50	Conifer							
								Hardwood	1						
28	RT	3	HT	0	100	90	10	Conifer							
								Hardwood	3	5					

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **139** **ESMOND CREEK (UPPER) PRE-TX (**

<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	SP	01	23.5	TJ/	START 6.5M BELOW SIGN	START SURVEY
2	RB	11	23.5		TRIB UNIT, ACW=1.3, T=1	TRIB UNIT
8	RI	00	103.4		COHO, DEAD CRAYFISH	
9	LP	00	114.6			3" COHO
11	RI	00	145.1		RIP#1	
14	LP	00	193.2			8" TROUT
15	LP	00	200.7	DJ		
19	LP	00	246.9	DJ		
21	RI	00	278.4		RIP#2	
27	LP	00	416.6		RIP#3	
33	LP	01	495.1	/TJ	/TJ	
34	DC	11	495.1		TRIB UNIT--ESTIMATED	TRIB UNIT--ESTIMATED
35	LP	00	516.9		END SURVEY	END SURVEY



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

Location: 10 450864 E 4858638 N
 Caption: ESMOND CREEK (UPPER) RESTORATION SITE -
 SIUSLAW BASIN