

REACH 0

T22S-R7W-S24SW

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: 2.4 range: 2.0-3.0

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	501	3,855	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	7.7	Width	9.8	12.6	15.1
Depth	0.32	Height	0.4	0.8	1.9
		W:D ratio	23.6	Entrenchment	1.3

Stream Flow Type: MF Water Temp: 17.0-17.0°C
 Avg. Unit Gradient: 1.0% Habitat Units/100m: 6.2

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	15%	Reach avg: 70%
Undercut Banks	0%	Range: 39- 89

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	99	19.8
Volume (m ³)	138	27.5
Key pieces ($\geq 10m \times 0.6m$)	4	0.8

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
GLIDE	7	143	8.2	0.24	1,180	1	4	11	21	1	0	62
POOL-LATERAL SCOUR	11	227	7.7	0.57	1,833	10	5	14	19	4	2	56
RAPID/BEDROCK	2	16	5.6	0.20	88	1	0	8	18	10	3	63
RIFFLE	6	108	6.0	0.21	691	9	1	13	23	4	2	57
STEP/BEDROCK	5	7	10.0	0.08	63	2	0	0	4	0	0	96
Total:	31	501	7.7	0.32	3,855	23	Avg: 3	11	18	3	1	64

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Number	Boulders #/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	11	227	7.7	0.57	1,833	47.54	10	0.5
Glides	7	143	8.2	0.24	1,180	30.60	1	0.1
Riffles	6	108	6.0	0.21	691	17.93	9	1.3
Rapids	2	16	5.6	0.20	88	2.28	1	1.1
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	5	7	10.0	0.08	63	1.64	2	3.2
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	11	22.0
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces≥3):	5	10.0
Pool Frequency (channel widths/pool):	4.6	
Residual pool depth (avg)	0.49m	

STREAM SUMMARY

BRUSH CREEK (POST-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate						Total Large Boulder
					S/O	Percent Wetted Area		Wetted Area			
					Sand	Grvl	Cbbl	Bldr	Bdrk		
31	501	7.7	0.32	3,855	3	11	18	3	1	64	23

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,833	47.5
Backwater Pools	0	0.0
Glide	1,180	30.6
Riffle	691	17.9
Rapid	88	2.3
Cascade	0	0.0
Step	63	1.6
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	630
Total conifers/1000 ft	386
Total conifers >20" dbh/1000 ft	20
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	2.0	0.7	2.7	0.7	1.7	1.7	6.3
15-30cm	0.3	1.3	1.7	1.3	0.7	0.7	2.7	3.3
30-50cm	0.0	0.3	1.0	0.0	0.7	0.0	1.7	0.3
50-90cm	0.0	0.3	0.3	0.0	0.0	0.0	0.3	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.7	4.0	3.7	4.0	2.0	2.3	2.1	3.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	66		68		57	
Shrub cover	47		38		26	
Grass/forb cover	38		39		33	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		33		50
High terrace	67		50		17	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		33	
Riprap	0		0		0	
Surface slope (%)	23		17		17	

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	630
Total conifers/1000 ft	386
Total conifers >20" dbh/1000 ft	20

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	1.7	6.3
15-30cm	2.7	3.3
30-50cm	1.7	0.3
50-90cm	0.3	0.3
>90cm	0.0	0.0

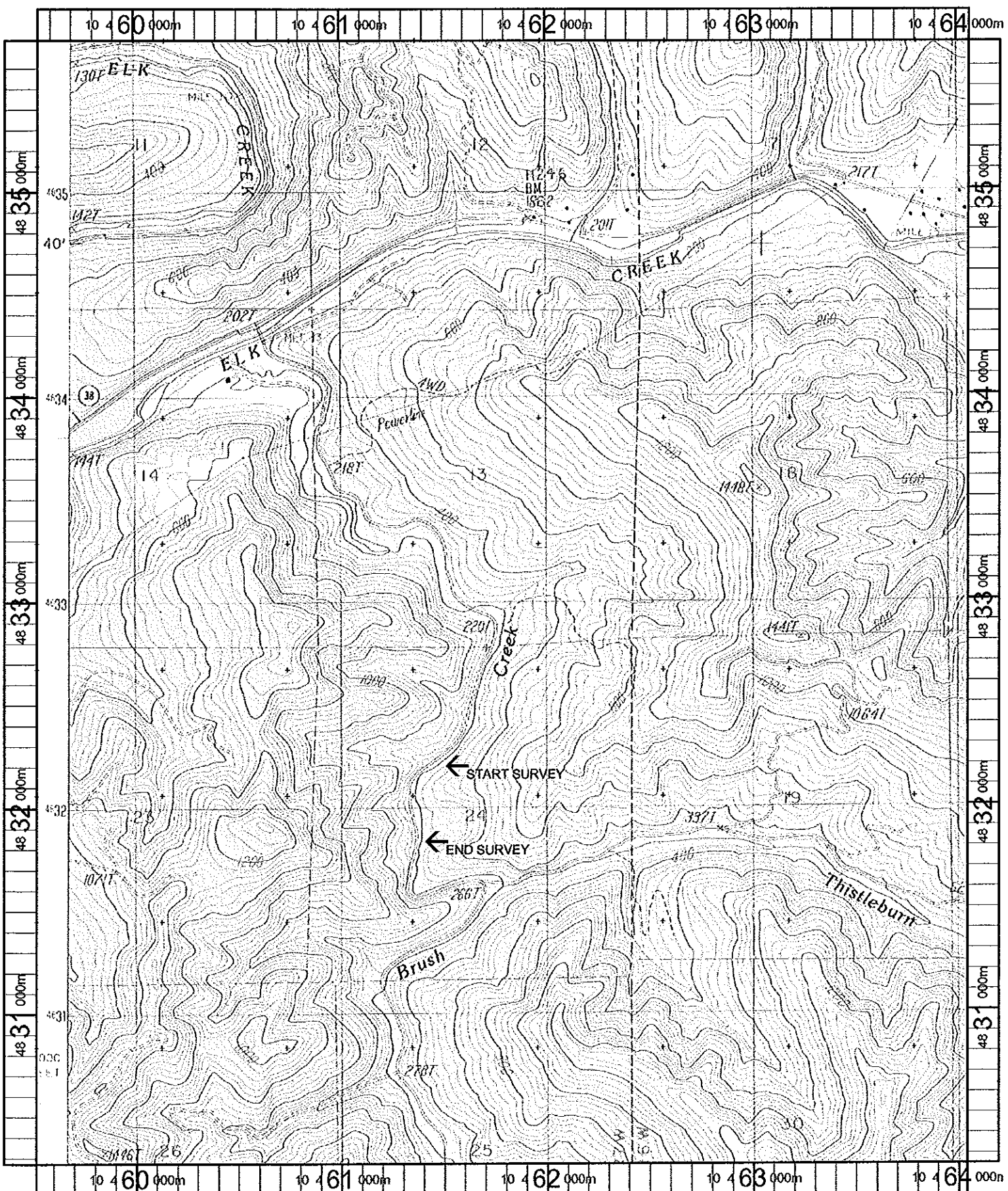
RIPARIAN ZONE VEGETATION

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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	
10	LF	1	HT	0.0	70	65	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
10	LF	2	HT	0.0	70	25	70	Conifer	0	0	2	0	0	
								Hardwood	0	0	0	0	0	SKID ROAD
10	LF	3	HS	15.0	50	30	45	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	SKID ROAD
10	RT	1	HT	0.0	85	65	20	Conifer	0	0	0	0	0	
								Hardwood	1	2	1	1	0	BIG LEAF MAPLE
10	RT	2	HT	0.0	85	70	15	Conifer	0	0	0	0	0	
								Hardwood	3	4	0	0	0	
10	RT	3	RB	0.0	55	10	15	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
17	LF	1	HS	100.0	75	30	35	Conifer	1	1	0	0	0	
								Hardwood	1	0	0	0	0	
17	LF	2	HS	80.0	75	30	40	Conifer	1	2	1	0	0	
								Hardwood	0	0	0	0	0	
17	LF	3	HS	75.0	70	25	40	Conifer	0	2	1	0	0	
								Hardwood	0	0	0	0	0	
17	RT	1	HT	0.0	70	40	30	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	
17	RT	2	HT	0.0	65	15	40	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	
17	RT	3	HT	0.0	90	50	30	Conifer	1	0	0	0	0	
								Hardwood	5	2	0	0	0	
26	LF	1	HS	35.0	50	25	75	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	LF	2	HS	24.0	65	25	60	Conifer	1	2	0	0	0	
								Hardwood	0	0	0	0	0	
26	LF	3	HS	12.0	65	30	50	Conifer	1	0	1	0	0	
								Hardwood	0	0	0	0	0	
26	RT	1	HT	0.0	45	55	45	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	
26	RT	2	RB	0.0	50	60	10	Conifer	0	1	0	1	0	
								Hardwood	0	0	0	0	0	CEDAR
26	RT	3	RB	0.0	10	10	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	NONE



Name: PUTNAM VALLEY
 Date: 11/8/100
 Scale: 1 Inch equals 2000 feet

Location: 10 461688 E 4832979 N
 Caption: BRUSH CREEK RESTORATION SITE - UMPQUA BASIN