

REACH SUMMARY

REACH 1

T19S-R6W-20SW

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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: 6.6 range: 4.0-9.0

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	526	1,798	0
Secondary	36	57	2

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.3	Width	5.5	25.7	5.8
Depth	0.25	Height	0.5	1.0	0.9
		W:D ratio	10.7	Entrenchment	4.7

Stream Flow Type: MF Water Temp: 13.5-13.5°C  
 Avg. Unit Gradient: 1.1% Habitat Units/100m: 8.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	
Riparian Vegetation:	D30	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	5%	Reach avg: 65%
Undercut Banks	23%	Range: 28-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	37	7.0
Volume (m <sup>3</sup> )	22	4.1

Key pieces ( $\geq 1.0\text{m} \times 0.6\text{m}$ )

1

0.2

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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 <sup>2</sup> )	Large Boulders (>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
DRY UNITS	1	12	3.6	0.00	43	0	0	5	30	65	0	0
GLIDE	3	34	2.9	0.12	97	0	3	13	23	2	0	58
POOL-LATERAL SCOUR	21	256	3.8	0.42	986	0	10	20	17	10	0	43
POOL-PLUNGE	1	8	5.4	0.65	42	0	5	15	45	20	0	15
PUDDLED CHANNEL	1	24	0.6	0.10	14	0	20	20	30	30	0	0
RIFFLE	12	164	3.1	0.11	484	5	5	16	28	18	0	33
RIFFLE W/ POCKETS	3	37	3.0	0.20	112	0	5	8	38	35	0	13
STEP/BEDROCK	6	21	2.6	0.05	62	0	1	3	0	0	0	97
STEP/COBBLE	2	7	2.2	0.06	15	0	0	5	18	78	0	0
<b>Total:</b>	<b>50</b>	<b>562</b>	<b>3.3</b>	<b>0.25</b>	<b>1,855</b>	<b>5</b>	<b>Avg: 7</b>	<b>15</b>	<b>20</b>	<b>16</b>	<b>0</b>	<b>42</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	22	264	3.9	0.44	1,028	55.42	0	0.0
Glides	3	34	2.9	0.12	97	5.21	0	0.0
Riffles	15	201	3.1	0.13	596	32.13	5	0.8
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	8	28	2.5	0.05	77	4.15	0	0.0
Dry	2	36	2.1	0.05	57	3.09	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	22	39.2
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	3	5.3
Pool Frequency (channel widths/pool):	4.7	
Residual pool depth (avg)	0.37m	

STREAM SUMMARY

PHEASANT CREEK (PRE SUM 00)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
50	562	3.3	0.25	1,855	7	15	20	16	0	42	5

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	1,028	55.4
Backwater Pools	0	0.0
Glide	97	5.2
Riffle	596	32.1
Rapid	0	0.0
Cascade	0	0.0
Step	77	4.1
Dry	57	3.1

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	772
Total conifers/1000 ft	0
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	3.0	0.0	1.0	0.0	1.7	0.0	5.7
15-30cm	0.0	1.7	0.0	2.0	0.0	0.3	0.0	4.0
30-50cm	0.0	1.7	0.0	0.3	0.0	0.0	0.0	2.0
50-90cm	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	0.0	6.3	0.0	4.3	0.0	2.0	0.0	4.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	45		28		1	
Shrub cover	33		26		13	
Grass/forb cover	59		43		37	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		17		50
High terrace	50		33		17	
Low terrace	50		50		17	
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 (%)	0		3		23	

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	772
Total conifers/1000 ft	
Total conifers >20" dbh/1000 ft	0

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	0.0	5.7
15-30cm	0.0	4.0
30-50cm	0.0	2.0
50-90cm	0.0	1.0
>90cm	0.0	0.0

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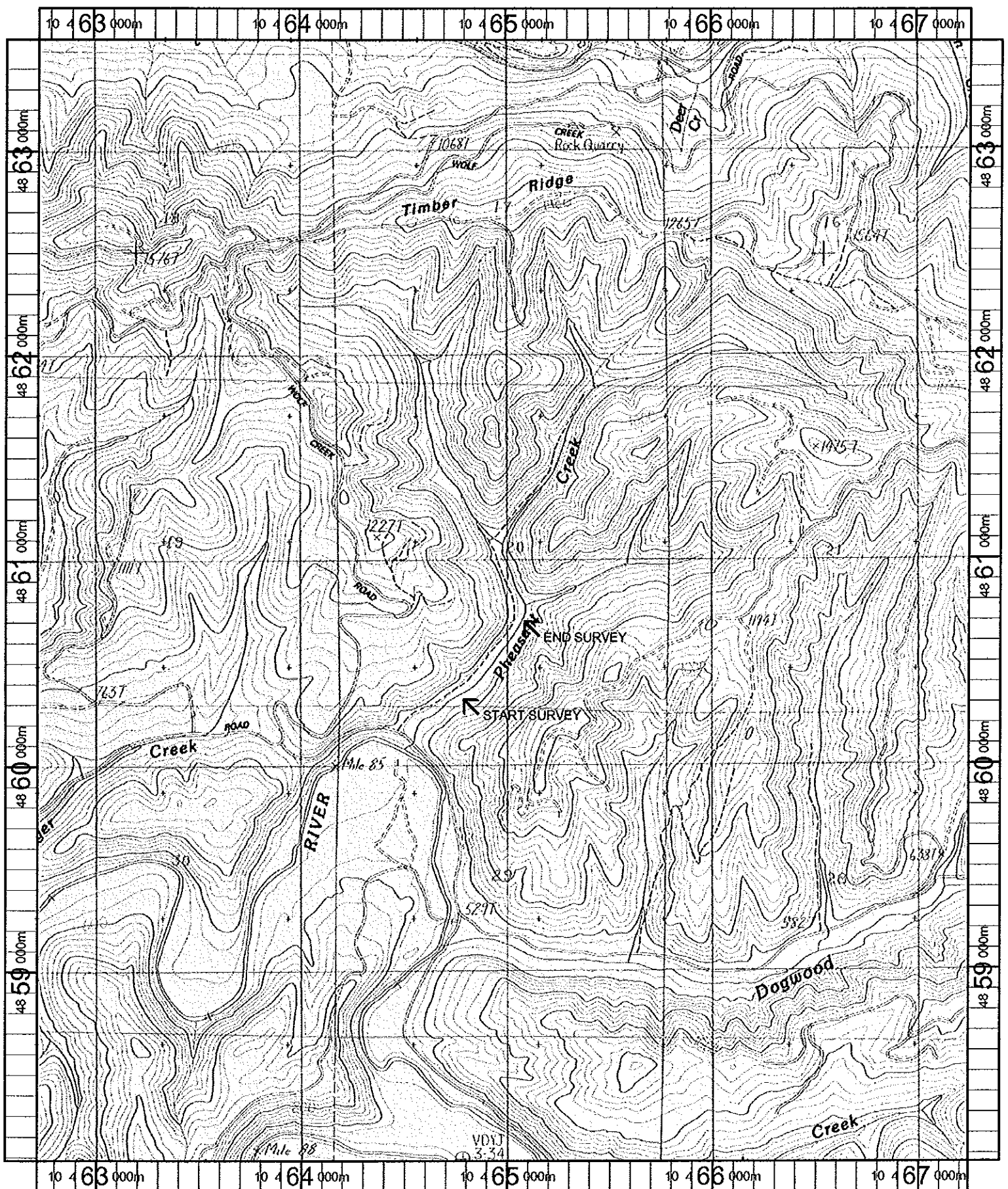
RIPARIAN ZONE VEGETATION

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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	
16	LF	1	LT	0.0	55	45	45	Conifer	0	0	0	0	0	
								Hardwood	0	2	3	0	0	10% BARE GROUND, AL
16	LF	2	LT	0.0	50	45	45	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	2	0	10% BARE GROUND, AL
16	LF	3	RB	0.0	5	5	10	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	85% BARE GROUND, AL
16	RT	1	HT	0.0	50	60	35	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	ALDER
16	RT	2	HT	0.0	45	20	40	Conifer	0	0	0	0	0	
								Hardwood	3	3	0	0	0	ALDER
16	RT	3	HS	50.0	0	0	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEAR CUT
27	LF	1	LT	0.0	45	20	75	Conifer	0	0	0	0	0	
								Hardwood	3	1	1	0	0	ALDER
27	LF	2	LT	0.0	40	60	30	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	ALDER
27	LF	3	LT	0.0	0	20	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEAR CUT
27	RT	1	HT	0.0	0	40	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEAR CUT ALL ZONES
27	RT	2	HS	15.0	0	10	45	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
27	RT	3	HS	30.0	0	0	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
39	LF	1	HT	0.0	70	10	90	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	ESTIMATED ALL ZONES
39	LF	2	HT	0.0	30	10	70	Conifer	0	0	0	0	0	
								Hardwood	0	2	1	1	0	ALDER, 20% BARE
39	LF	3	HT	0.0	0	40	40	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	20% BARE, V MPL, AL
39	RT	1	LT	0.0	50	20	70	Conifer	0	0	0	0	0	
								Hardwood	2	2	1	0	0	ESTIMATED, 10% BARE
39	RT	2	LT	0.0	0	10	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	60% BARE, CLEAR CUT
39	RT	3	HS	60.0	0	10	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	70% BARE, CLEAR CUT



Name: HIGH POINT  
 Date: 11/7/100  
 Scale: 1 inch equals 2000 feet

Location: 10 464890 E 4860788 N  
 Caption: PHEASANT CREEK RESTORATION SITE - SIUSLAW BASIN