

REACH SUMMARY

REACH 0

T3S-R5E-S34SE

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	0
Moderate V-shape	0	Multiple Terraces	100
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 3.0 range: 1.5-6.0

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	497	2,303	0
Secondary	106	233	1

Channel Dimensions (m)

	<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>		<u>First Terrace</u>
Width	4.0		7.1		16.5		9.0
Depth	0.29		0.6		1.2		0.8
		W:D ratio	11.5	Entrenchment	2.3		

Stream Flow Type: MF Water Temp: 10.0-10.0°C
Avg. Unit Gradient: 3.0% Habitat Units/100m: 7.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	PT
Riparian Vegetation:	D15	M30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 87%
Undercut Banks	19%	Range: 61-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	129	26.0
Volume (m ³)	210	42.2

Key pieces ($\geq 10\text{m} \times 0.6\text{m}$)

9

1.8

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
CULVERT CROSSING	1	10	1.1	0.10	11	0	5	5	20	50	20	0
GLIDE	1	15	3.6	0.10	52	0	50	30	10	10	0	0
POOL-DAMMED	1	8	4.6	0.50	37	0	14	33	29	24	0	0
POOL-LATERAL SCOUR	13	121	4.4	0.50	550	23	8	19	30	29	8	7
PUDDLED CHANNEL	1	10	0.9	0.10	9	0	40	10	35	15	0	0
RAPID/BOULDERS	14	262	4.0	0.24	1,054	19	7	14	24	39	14	2
RIFFLE	7	123	3.4	0.16	443	17	6	14	32	35	11	1
RIFFLE W/ POCKETS	3	53	5.8	0.28	372	0	13	22	25	32	8	0
STEP/BOULDERS	1	0	4.1	0.20	1	3	14	5	18	14	50	0
STEP/LOG	3	2	4.4	0.08	7	0	0	18	52	25	5	0
Total:	45	603	4.0	0.29	2,537	62	Avg: 9	17	29	32	11	3

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	1	8	4.6	0.50	37	1.47	0	0.0
Scour Pools	13	121	4.4	0.50	550	21.67	23	4.2
Glides	1	15	3.6	0.10	52	2.06	0	0.0
Riffles	10	176	4.1	0.20	815	32.13	17	2.1
Rapids	14	262	4.0	0.24	1,054	41.56	19	1.8
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	4	2	4.4	0.11	8	0.32	3	37.0
Dry	1	10	0.9	0.10	9	0.35	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	14	23.2
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	7	11.6
Pool Frequency (channel widths/pool):	6.1	
Residual pool depth (avg)	0.36m	

STREAM SUMMARY

DELPH CREEK

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	
45	603	4.0	0.29	2,537	9	17	29	32	11	3	62

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	550	21.7
Backwater Pools	37	1.5
Glide	52	2.1
Riffle	815	32.1
Rapid	1,054	41.6
Cascade	0	0.0
Step	8	0.3
Dry	9	0.4

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	1,443
Total conifers/1000 ft	853
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	41

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	8.7	7.3	0.7	5.3	0.3	0.3	9.7	13.0
15-30cm	0.7	4.0	1.7	2.3	0.3	1.3	2.7	7.7
30-50cm	0.0	1.3	0.7	0.3	0.0	1.0	0.7	2.7
50-90cm	0.0	0.0	0.0	0.3	0.3	0.0	0.3	0.3
>90cm	0.3	0.0	0.3	0.0	0.0	0.0	0.7	0.0
Total/100m ²	9.7	12.7	3.3	8.3	1.0	2.7	4.7	7.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	80		55		18	
Shrub cover	48		38		9	
Grass/forb cover	33		43		24	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	17		50		67	
High terrace	0		33		17	
Low terrace	83		17		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 (%)	9		14		19	

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	1,443
Total conifers/1000 ft	853
Total conifers >20" dbh/1000 ft	61

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	Zones 1-3	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	9.7	13.0
15-30cm	2.7	7.7
30-50cm	0.7	2.7
50-90cm	0.3	0.3
>90cm	0.7	0.0

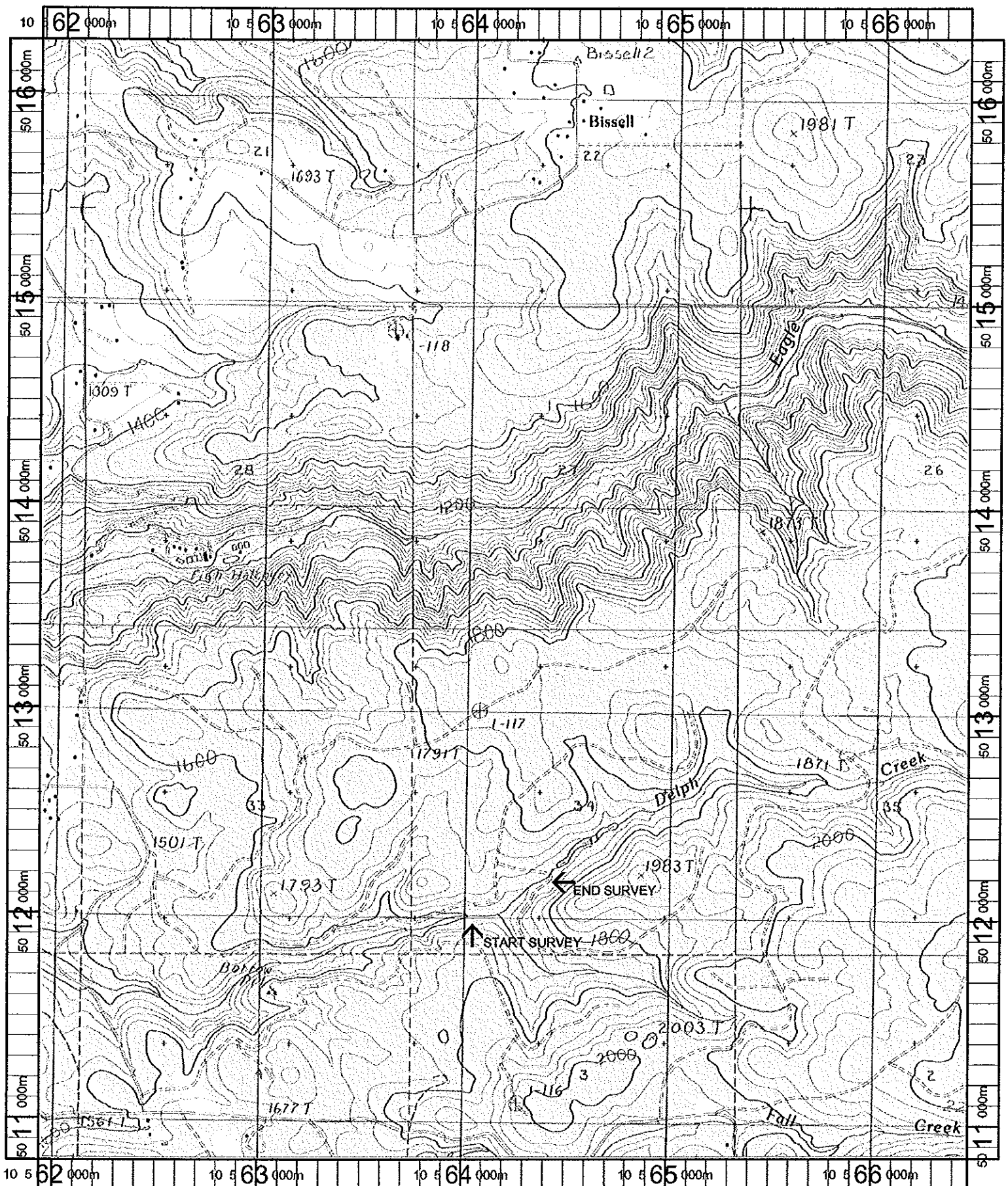
RIPARIAN ZONE VEGETATION

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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	
14	LF	1	LT	15.0	85	10	40	Conifer	1	0	0	0	1	
								Hardwood	1	0	0	0	0	
14	LF	2	HS	30.0	20	0	20	Conifer	1	2	0	0	0	
								Hardwood	0	0	0	0	0	
14	LF	3	HS	10.0	0	0	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEAR CUT, SLASH, S
14	RT	1	LT	4.0	85	55	35	Conifer	1	0	0	0	0	
								Hardwood	14	1	1	0	0	DOWNED DEBRIS
14	RT	2	LT	0.0	85	50	35	Conifer	0	0	1	0	0	
								Hardwood	0	0	1	0	0	BARE GROUND 25%
14	RT	3	HS	20.0	50	30	25	Conifer	0	0	0	0	0	
								Hardwood	0	3	3	0	0	CLEARCUT SLASH, DOW
24	LF	1	LT	1.0	95	80	20	Conifer	1	0	0	0	0	
								Hardwood	5	4	2	0	0	45% BARE GROUND
24	LF	2	HS	16.0	95	60	80	Conifer	0	1	0	0	0	
								Hardwood	10	3	0	0	0	ALDER, MAPLE, SALMO
24	LF	3	HS	34.0	20	10	40	Conifer	1	0	0	0	0	
								Hardwood	1	0	0	0	0	CLEARCUT, SLASH, ST
24	RT	1	LT	0.0	60	40	40	Conifer	22	0	0	0	0	
								Hardwood	0	2	0	0	0	OLD GROWTH CUT LOG
24	RT	2	HT	2.0	30	60	25	Conifer	1	0	0	0	0	
								Hardwood	5	1	0	0	0	ALDER
24	RT	3	HS	21.0	0	0	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEARCUT STUMP, SLA
33	LF	1	HS	28.0	55	50	35	Conifer	0	1	0	0	0	
								Hardwood	1	2	0	0	0	15% BARE HEMLOCK
33	LF	2	HS	33.0	60	20	50	Conifer	0	0	1	0	0	
								Hardwood	1	2	0	0	0	HEMLOCK, ALDER
33	LF	3	HS	24.0	0	0	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	CLEARCUT, SLASH, DE
33	RT	1	LT	5.0	100	50	25	Conifer	1	1	0	0	0	
								Hardwood	1	3	1	0	0	ALDER, CEDAR
33	RT	2	HT	2.0	40	40	50	Conifer	0	2	0	0	1	
								Hardwood	0	1	0	1	0	CEDAR, ALDER, HEMLO
33	RT	3	HT	3.0	40	15	65	Conifer	0	1	0	1	0	
								Hardwood	0	1	0	0	0	WOOD DEBRIS, CUT LO



Name: CHERRYVILLE
 Date: 11/8/100
 Scale: 1 inch equals 2000 feet

Location: 10 564081 E 5013533 N
 Caption: DELPH CREEK RESTORATION SITE - CLACKAMAS BASIN