

REACH 1

T2S-R3E-S43SE

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

Valley Width Index avg: 20.0 range: 20.0-20.0

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	709	1,446	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.2	Width	4.6	8.7	14.0
Depth	0.16	Height	0.3	0.6	0.9
		W:D ratio	14.8	Entrenchment	2.0

Stream Flow Type: LF Water Temp: 14.5-14.5°C
 Avg. Unit Gradient: 1.5% Habitat Units/100m: 6.5

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 63%
Undercut Banks	1%	Range: 19-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	16	2.3
Volume (m ³)	3	0.4
Key pieces (≥10m x 0.6m)	0	0.0

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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	9	113	2.6	0.16	267	0	10	30	36	24	0	0
POOL-LATERAL SCOUR	4	71	2.3	0.32	165	0	17	35	37	12	0	0
POOL-STRAIGHT SCOUR	4	34	3.1	0.26	100	0	22	40	36	3	0	0
RIFFLE	29	491	2.0	0.12	915	0	9	29	42	20	0	0
Total:	46	709	2.2	0.16	1,446	0	Avg:11	31	40	18	0	0

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	0	0	-	-	0	0.00	0	0.0
Scour Pools	8	105	2.7	0.29	264	18.26	0	0.0
Glides	9	113	2.6	0.16	267	18.44	0	0.0
Riffles	29	491	2.0	0.12	915	63.30	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	8	11.3
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	0	0.0
Pool Frequency (channel widths/pool):	19.4	
Residual pool depth (avg)	0.18m	

STREAM SUMMARY

FOSTER CREEK PRE-TX (#86)

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	
46	709	2.2	0.16	1,446	11	31	40	18	0	0	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	264	18.3
Backwater Pools	0	0.0
Glide	267	18.4
Riffle	915	63.3
Rapid	0	0.0
Cascade	0	0.0
Step	0	0.0
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	366
Total conifers/1000 ft	61
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	1.0	0.0	0.3	0.0	1.0	0.0	2.3
15-30cm	0.0	0.3	0.3	0.7	0.0	0.0	0.3	1.0
30-50cm	0.0	0.3	0.0	0.0	0.0	1.0	0.0	1.3
50-90cm	0.3	0.0	0.3	1.0	0.0	0.3	0.7	1.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.3	1.7	0.7	2.0	0.0	2.3	0.3	2.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	38		50		45	
Shrub cover	34		23		35	
Grass/forb cover	41		69		63	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	33		0		33
High terrace	50		83		67	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	17		17		0	
Riprap	0		0		0	
Surface slope (%)	4		1		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	366
Total conifers/1000 ft	61
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	0.0	2.3
15-30cm	0.3	1.0
30-50cm	0.0	1.3
50-90cm	0.7	1.3
>90cm	0.0	0.0

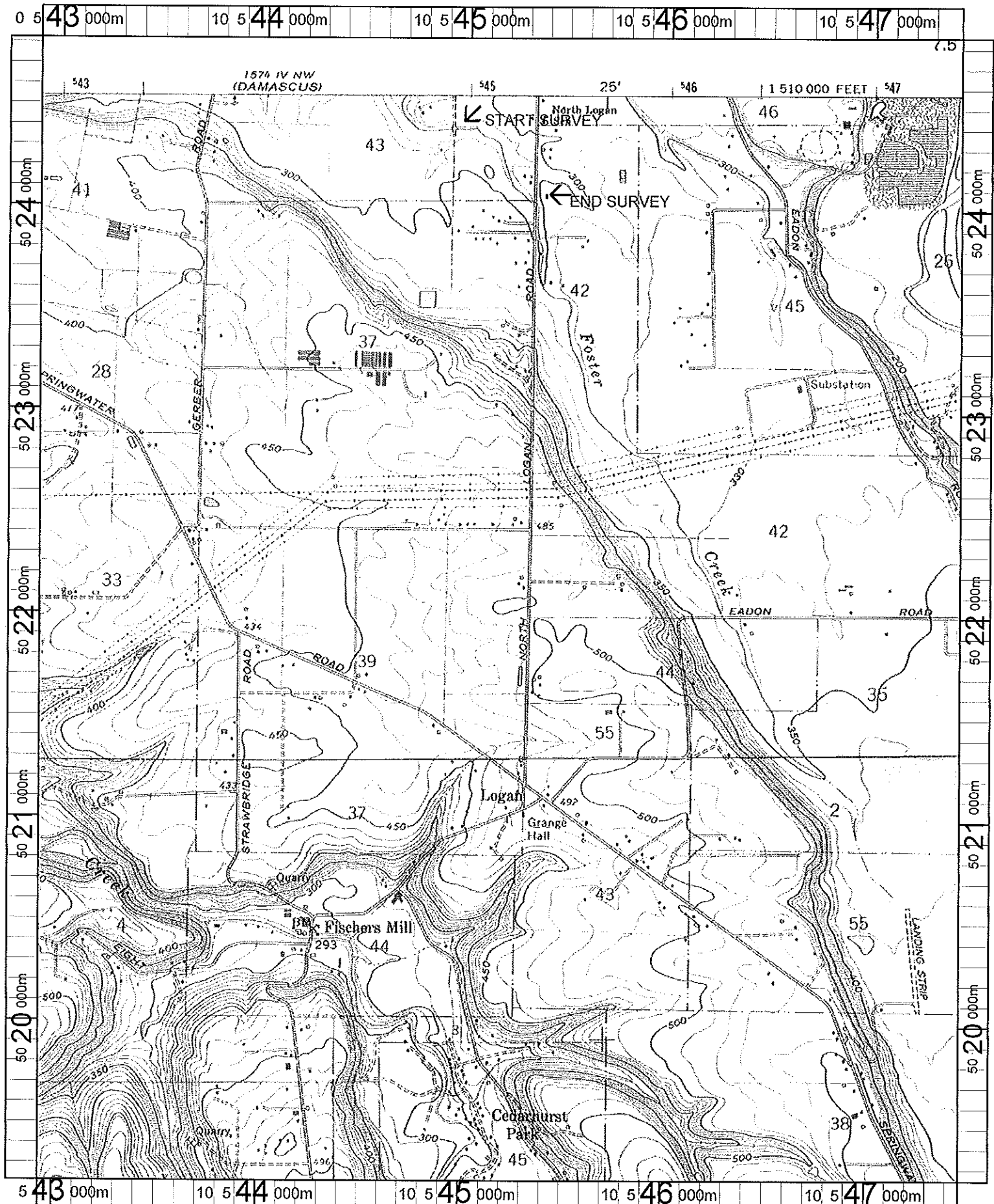
RIPARIAN ZONE VEGETATION

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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		
12	LF	1	HS	8.0	30	0	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
12	LF	2	RB	8.0	40	0	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	1	0	
12	LF	3	HS	8.0	40	20	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	1	0	
12	RT	1	RB	5.0	60	15	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
12	RT	2	HT	0.0	60	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
12	RT	3	HT	0.0	50	20	80	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	
23	LF	1	HT	0.0	60	80	20	Conifer	0	0	0	1	0	
								Hardwood	3	0	0	0	0	
23	LF	2	HT	0.0	80	30	70	Conifer	0	1	0	1	0	
								Hardwood	0	0	0	0	0	
23	LF	3	HT	0.0	60	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
23	RT	1	HT	0.0	60	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
23	RT	2	HT	0.0	70	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	2	0	
23	RT	3	HS	8.0	60	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
33	LF	1	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
33	LF	2	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
33	LF	3	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
33	RT	1	HS	8.0	20	20	45	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
33	RT	2	HT	0.0	50	15	85	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
33	RT	3	HT	0.0	60	40	60	Conifer	0	0	0	0	0	
								Hardwood	2	0	1	0	0	



Name: REDLAND
 Date: 1/10/2002
 Scale: 1 inch equals 2000 feet

Location: 10 545177 E 5022034 N
 Caption: FOSTER CREEK RESTORATION SITE -
 CLACKAMAS BASIN