

REACH 1

T03S-R08W-S24SE

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	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.0	VWI Range:	1.1 - 2.7

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
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	498	2,516	0
Secondary	12	10	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.7	Width	9.4	12.3	14.8
Depth	0.35	Height	0.6	1.2	1.6
		W:D ratio	16.5	Entrenchment	1.3
Stream Flow Type:	MF	Water temp (C):		11.0 - 11.0	
Avg. Unit Gradient:	1.9%	Habitat Units/100m:		5.8	

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	0%	Reach avg: 96%
Undercut Banks:	5%	Range: 86 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	16	3.2
Volume (m ³):	16	3.2
Key pieces (>=10m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

BAYS CREEK PRE-TX (NC-3)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

6/26/02

REACH 1		T03S-R08W-S24SE					REACH 1						
HABITAT DETAIL													
Habitat Type	Number	Total	Avg	Avg	Total	Large	Substrate						
							Units	Length	Width	Depth	Area	Boulders	Percent Wetted Area
		(m)	(m)	(m)	(m ²)	(>0.5m)	S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
POOL-BACKWATER	1	4	1.5	0.15	6	0	10	40	0	0	0	50	
POOL-ISOLATED	2	8	0.7	0.11	4	0	13	38	25	5	0	20	
POOL-LATERAL SCOUR	4	98	5.4	0.73	530	0	6	10	29	4	0	51	
POOL-PLUNGE	1	8	4.5	0.58	34	3	3	8	50	11	6	22	
POOL-STRAIGHT SCOUR	3	56	4.9	0.82	275	5	2	11	33	12	2	40	
POOL-TRENCH	1	7	1.5	1.20	10	1	0	10	10	30	0	50	
RAPID/BEDROCK	4	101	4.4	0.16	433	2	2	6	24	10	4	55	
RAPID/BOULDERS	4	87	5.8	0.13	500	10	1	6	33	26	10	23	
RIFFLE	6	113	5.1	0.16	583	3	1	8	33	34	6	17	
RIFFLE W/ POCKETS	1	22	4.8	0.18	103	0	0	3	12	5	0	80	
STEP/BEDROCK	1	4	3.3	0.20	13	0	0	0	5	5	90	0	
STEP/COBBLE	1	3	11.1	0.10	33	0	0	0	20	70	10	0	
Total:	29	509	4.7	0.35	2,526	24	Avg	3	11	27	18	7	34

HABITAT SUMMARY								
Habitat Group	Number	Total	Avg	Avg	Wetted Area		Large Boulders	
					Units	Length	Width	Depth
		(m)	(m)	(m)				
Dammed & BW Pools	3	12	0.9	0.12	10	0.40%	0	0.0
Scour Pools	9	168	4.7	0.79	849	33.62%	9	1.1
Glides	0	0			0	0.00%	0	0.0
Riffles	7	135	5.0	0.16	686	27.17%	3	0.4
Rapids	8	188	5.1	0.14	934	36.96%	12	1.3
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	2	7	7.2	0.15	47	1.84%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km
All Pools:	12	24.1
Pools >=1m deep:	2	4.0
Complex pools (LWD pieces>=3):	2	4.0
Pool frequency (channel widths/pool):	4.5	
Residual pool depth (avg):	0.62	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	1077
Total conifers/1000 ft	284
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	4.3	0.0	5.0	0.0	4.0	0.0	13.3
15-30cm	0.3	0.3	1.0	0.3	3.0	0.0	4.3	0.7
30-50cm	0.0	1.3	0.0	0.7	0.3	0.3	0.3	2.3
50-90cm	0.0	1.0	0.0	0.3	0.0	0.0	0.0	1.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.3	7.0	1.0	6.3	3.3	4.3	1.6	5.9

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	92	94	78
Shrub cover	13	33	24
Grass/forb cover	88	66	56

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	83	100	100
High terrace	17	0	0
Low terrace	0	0	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 (%)	43	44	20

RIPARIAN ZONE VEGETATION

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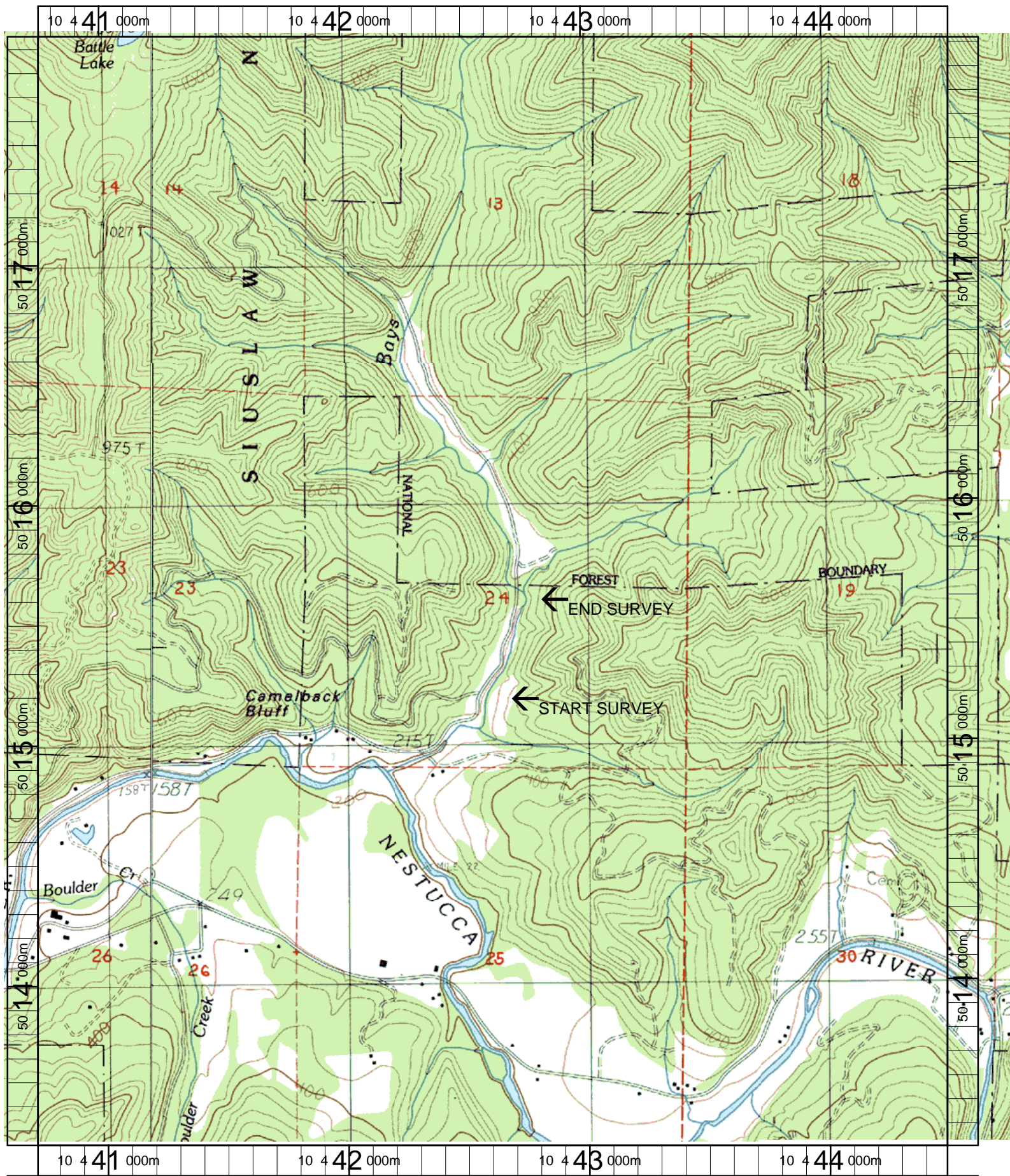
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
6	LF	1	HS	30	100	30	70	Conifer							PARTIAL HT
								Hardwood		1		1			
6	LF	2	HS	90	100	30	60	Conifer							PARTIAL RB
								Hardwood	1						
6	LF	3	HS	15	5	0	50	Conifer							PARTIAL RB
								Hardwood							
6	RT	1	HS	50	90	10	90	Conifer							
								Hardwood			1				
6	RT	2	HS	50	85	85	15	Conifer							
								Hardwood	6						
6	RT	3	HS	30	80	80	20	Conifer			1				
								Hardwood							
15	LF	1	HS	12	95	10	90	Conifer			1				DFIR, BLM
								Hardwood			2	1			
15	LF	2	HS	9	90	5	95	Conifer			2				
								Hardwood			1				
15	LF	3	HS	3	90	5	95	Conifer			2	1			
								Hardwood							
15	RT	1	HS	150	100	5	95	Conifer							VMAPLE
								Hardwood	13						
15	RT	2	HS	30	100	30	70	Conifer							
								Hardwood	8		1				
15	RT	3	HS	30	100	30	70	Conifer							
								Hardwood	12						
24	LF	1	HT	1	100	10	90	Conifer							
								Hardwood			1				
24	LF	2	HS	50	95	25	75	Conifer							ALDER
								Hardwood				1			
24	LF	3	HS	14	95	0	30	Conifer							PARTIAL ROAD
								Hardwood			1				
24	RT	1	HS	16	65	10	90	Conifer							
								Hardwood					1		
24	RT	2	HS	35	95	20	80	Conifer			1				
								Hardwood			1				
24	RT	3	HS	30	95	30	70	Conifer			6				DFIR
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 3 BAYS CREEK PRE-TX (NC-3)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RB	00	22.6		START SURVEY	START
2	SP	00	40.9			REDDS
5	RR	00	107.7		SUB UNIT POOL	
6	RP	00	129.2		RIP#1	SUB UNIT SIZED POOLS
10	RR	01	179.3			.45 POOL
11	IP	10	179.3	SS,/WL	RSN, COHO FRY	RSN
12	SP	00	198.3	SS/		
14	RI	00	231.4		REDD	
15	RB	00	248.6		RIP#2	RIP#2
18	IP	10	287.9		FRY	SHADED BY WOOD
19	LP	00	304.9	SS/	FRY	UT
21	RI	01	347.9			UT
23	LP	00	382.6		REDDS, FRY	REDDS
24	SC	00	385.6			RIP#3
26	LP	00	436.5		FRY, REDDS	REDDS
27	RI	00	450.6	/SS		
28	LP	00	475.8	/SS		
29	RB	00	497.5	/TJ	/TJ END SURVEY	END SURVEY SIGN ON LEFT



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

Location: 10 442613 E 5015633 N
 Caption: BAYS CREEK RESTORATION SITE - NESTUCCA BASIN