

REACH

T23S-R11W-S13SE

REACH

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	8.0	VWI Range:	4 - 15

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	498	1,062	0
Secondary	16	13	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 2.1	Width 3.1	4.0	5.0
Depth 0.34	Height 0.3	0.7	0.8
	W:D ratio 9.2	Entrenchment 1.3	
Stream Flow Type: LF		Water temp (C): 9.6 - 9.6	
Avg. Unit Gradient: 1.6%		Habitat Units/100m: 8.2	

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

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

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	17	3.4
Volume (m ³):	12	2.4
King pieces (>=10m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

BARN GULCH PRE-TX (MS-181)

HABITAT INVENTORY

Report Date: 5/6/03

Survey Date:

3/20/03

REACH		T23S-R11W-S13SE						REACH					
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	Cbl	Bldr	Bdrk	
POOL-BACKWATER	4	8	1.5	0.37	12	0	26	43	15	13	3	0	
POOL-LATERAL SCOUR	13	97	2.4	0.58	229	0	10	54	17	16	4	0	
POOL-PLUNGE	1	3	3.2	1.14	9	0	5	70	5	5	15	0	
RAPID/BOULDERS	1	4	0.3	0.05	1	0	0	30	20	20	30	0	
RIFFLE	16	290	2.0	0.16	596	0	7	22	27	35	8	0	
RIFFLE W/ POCKETS	6	112	2.1	0.19	227	0	7	25	35	31	2	0	
Total:	41	514	2.1	0.34	1,075	0	Avg 10	36	23	25	6	0	

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	4	8	1.5	0.37	12	1.10%	0	0.0
Scour Pools	14	100	2.5	0.62	238	22.16%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	22	403	2.0	0.17	824	76.63%	0	0.0
Rapids	1	4	0.3	0.05	1	0.11%	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
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	18	36.2
Pools >=1m deep:	2	4.0
Complex pools (LWD pieces>=3):	1	2.0
Pool frequency (channel widths/pool):	9.3	
Residual pool depth (avg):	0.50	

STREAM SUMMARY

BARN GULCH PRE-TX (MS-181)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
41	514	2.1	0.34	1,075	10	36	23	25	6	0	

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	12	1.10%
Scour Pools	238	22.16%
Glides	0	0.00%
Riffles	824	76.63%
Rapids	1	0.11%
Cascades	0	0.00%
Step/Falls	0	0.00%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Restoration Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 181 BARN GULCH PRE-TX (MS-181)

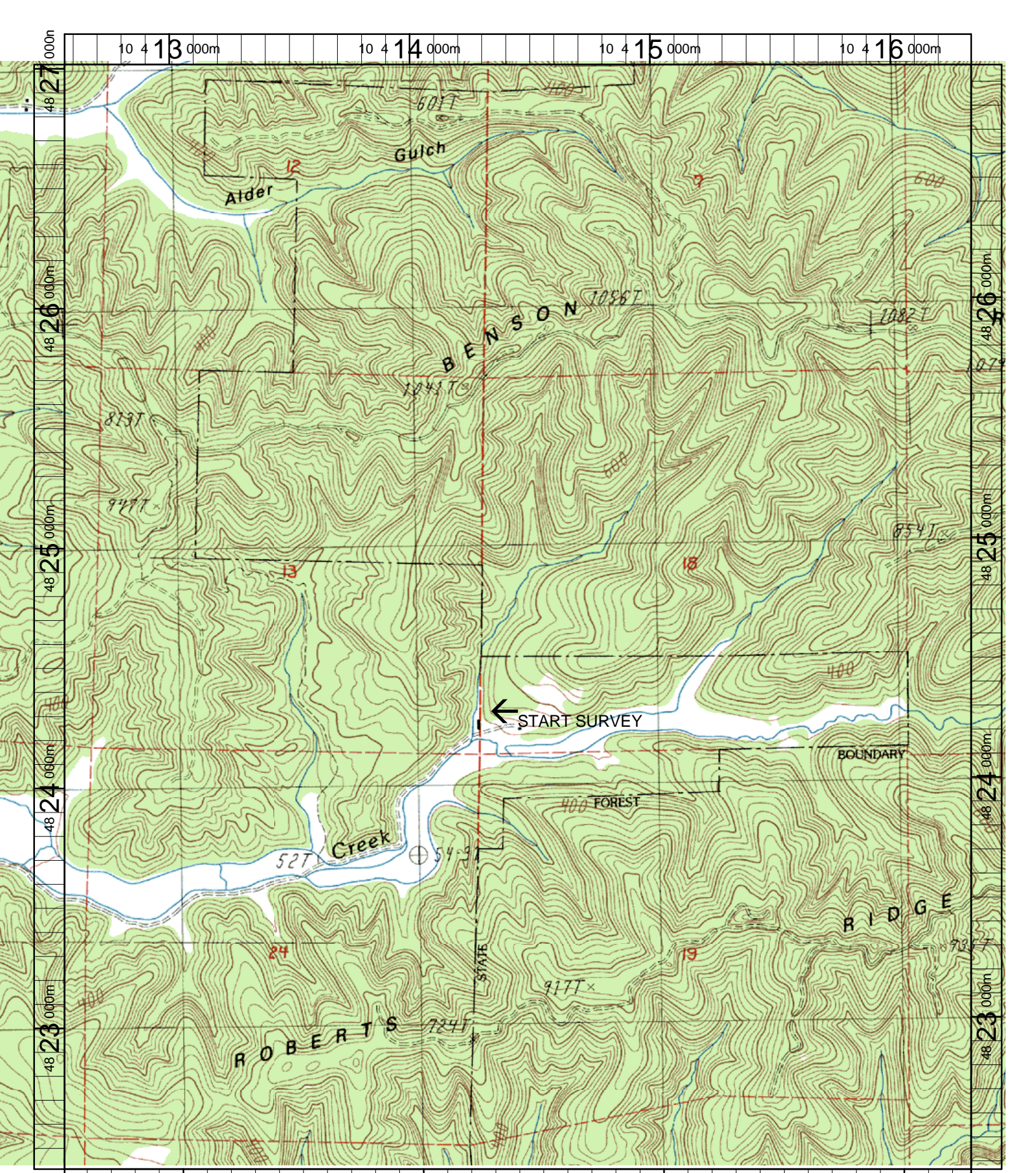
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RP	00	25		T=9.5C	
2	LP	00	32		CLEAR WATER	
5	LP	00	94		JUV FISH, 2 LP'S	
6	RI	00	119		JUV FISH	
7	BW	10	119		JUV FISH	
8	RI	00	144		0414267/4824449 2D	
10	LP	00	168.4	/SS	JUV COHO	
11	RI	00	176.4	/SS	JUV COHO	
13	LP	00	183.3		JUV	
14	RI	00	208.3		JUV	
15	RI	00	233.3		JUV	
16	RI	00	245		JUV	
18	LP	01	251.6	TJ/		
19	RI	11	251.6		GPS=0414266/4824524, T	
22	LP	00	266.9		JUV	
23	RP	00	275.8	/SS		
24	LP	00	293.1		JUV FISH	
25	RP	00	318.1		HARDPAN/	
26	LP	00	324.1		JUV	
27	RI	00	345.4		JUV FISH	
28	LP	00	351.1		JUV FISH	

Comment Summary

Restoration Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 181 BARN GULCH PRE-TX (MS-181)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
29	RI	00	378.4		0414297/4824652	
30	LP	00	384		HARDPAN/, JUV	
32	RP	00	423.3	/SS	JUV FISH	
33	LP	00	429.7		/HARDPAN, CLAY	
34	RI	00	438.4	/SS		
35	LP	00	440.9		HARDPAN, CLAY	
36	RI	01	444.5	TJ/		
37	RB	11	444.5		GPS=0414341/4824676 2D	
38	PP	00	447.3		3-5" TROUT, JUV CO	
39	RI	00	473.3	/SS	JUV FISH	
40	LP	00	478.8		JUV	
41	RI	00	497.8		GPS=0414368/4824711 2D	



Name: TRAIL BUTTE
 Date: 6/11/2003
 Scale: 1 inch equals 1666 feet

Location: 10 414417 E 4824695 N
 Caption: BARN GULCH RESTORATION SITE - TENMILE LAKE BASIN