

Module # 7

Field Day 1 – Basic Geomorphic Data Collection



Review of Field Forms for Day 1 Exercise

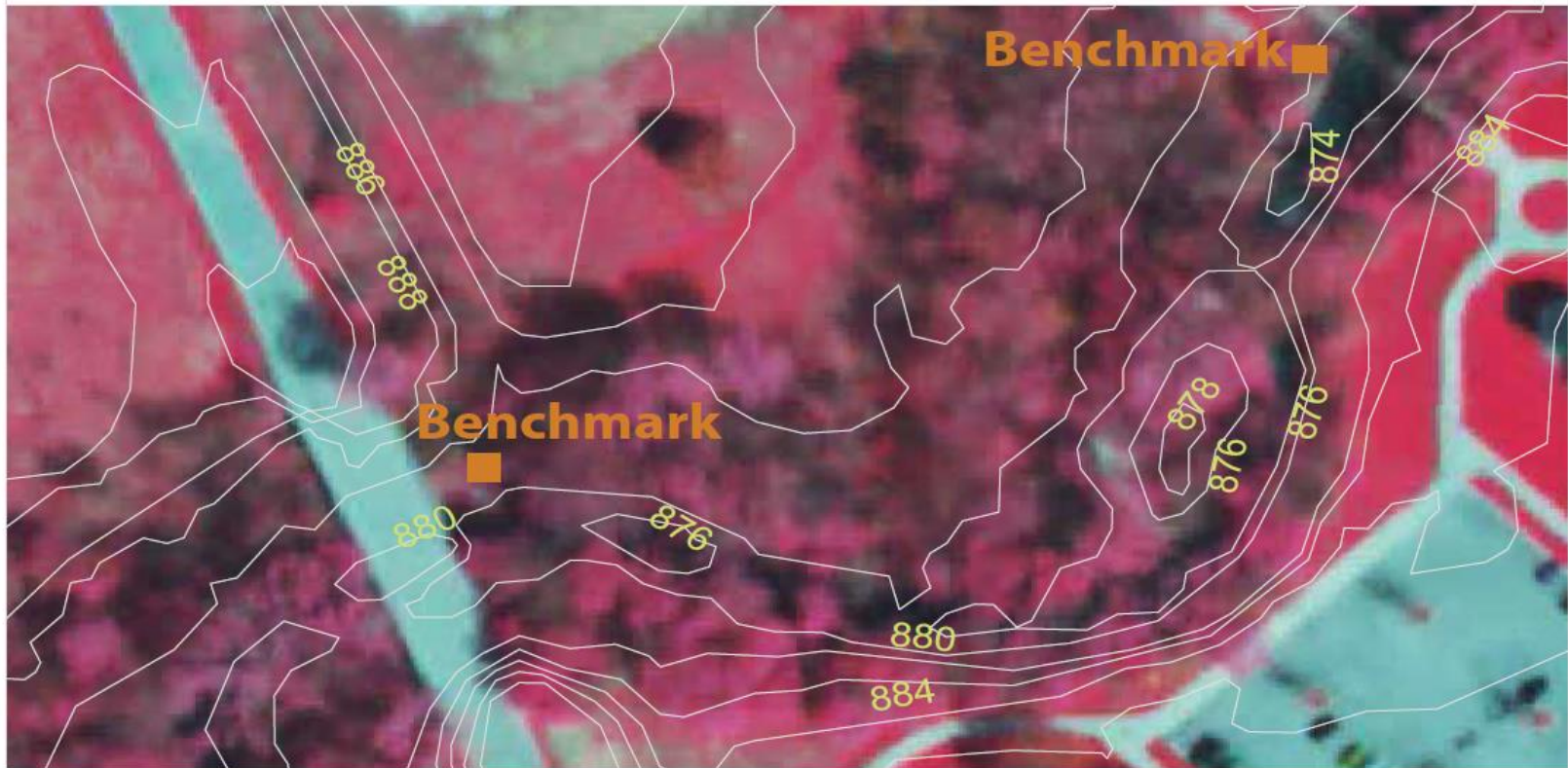
- Site Sketch
- Cross Section
- Longitudinal Profile
- Pebble Count
- Classification



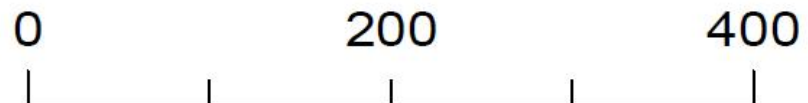
Team Segments



Review of Field Forms for Day 1 Exercise



Team 1 Sketch Map, Middle Fork Dry Run Creek
Drainage Area, 9.1 square miles



Review of Field Forms for Day 1 Exercise

- Use Consistent BM for Cross Sections & Profile
- Take Points in Order
- Turning Points
- Will Have Time to Process Data Later

SURVEY DATA					CROSS - SECTION 1	
SITE:					Date:	
Location:					HUC: _____	
Party / Notes:					HUC: _____	
Distance, Point, or STATION	Back-Sight B S	Height of Instrument H I	Fore-Sight F S	Elevation	NOTES	COMMENTS
ft	ft	ft	ft	ft		REMARKS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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21						
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23						
24						
25						
26						
27						
28						

Wolman Pebble Counts

- Reach Average
- Riffle Armor

Table 2-6. Pebble count form (Rosgen and Silvey, 2007) with example data.

Site: Lower Nevada Ck nr Helmville, MT				Date: 8/8/06			RIFFLE (1)			POOL (2)			COMPOSITE (3)		
Location: nr Gauge 12335500 HUC: 10 20 00 02				Reach: 26+00-32+00			Reach: 26+00-32+00			Reach: 26+00-32+00					
Party: Team 4				Date: 8/8/06			Date: 8/8/06			Date: 8/8/06					
Inches	PARTICLE	Millimeters		RIFFLE	POOL	COMP.	TOT #	ITEM %	% CUM	TOT #	ITEM %	% CUM	TOT #	ITEM %	% CUM
	Silt / Clay	< .062	S/C	••	••	••	6	6/70 = 8.6%	8.6	3	3/30 = 10%	10.0	6+3=9	9/100 = 9%	9
	Very Fine	.062 - .125	SAND	••	••	••	3	4.3	8.6-4.3 = 12.9%	2	6.7	10-6.7 = 16.7%	5	5	9+5 = 14%
	Fine	.125 - .25		••	••	••	1	1.4	14.3	1	3.3	20.0	2	2	16
	Medium	.25 - .50		••	••	••	4	5.7	20.0	1	3.3	23.3	5	5	21
	Coarse	.50 - 1.0		••	••	••	1	1.4	21.4	0	0.0	23.3	1	1	22
.04 - .08	Very Coarse	1.0 - 2		••	••	••	1	1.4	22.9	1	3.3	26.7	2	2	24
.08 - .16	Very Fine	2 - 4		••	••	••	1	1.4	24.3	0	0.0	26.7	1	1	25
.16 - .22	Fine	4 - 5.7	GRAVEL	••	••	••	2	2.9	27.1	3	10.0	36.7	5	5	30
.22 - .31	Fine	5.7 - 8		••	••	••	2	2.9	30.0	2	6.7	43.3	4	4	34
.31 - .44	Medium	8 - 11.3		••	••	••	4	5.7	35.7	6	20.0	63.3	10	10	44
.44 - .63	Medium	11.3 - 16		••	••	••	5	7.1	42.9	4	13.3	76.7	9	9	53
.63 - .89	Coarse	16 - 22.6	COARSE SAND	••	••	••	6	8.6	51.4	2	6.7	83.3	8	8	61
.89 - 1.3	Coarse	22.6 - 32		••	••	••	10	14.3	65.7	2	6.7	90.0	12	12	73
1.3 - 1.8	Very Coarse	32 - 45		••	••	••	10	14.3	80.0	2	6.7	96.7	12	12	85
1.8 - 2.5	Very Coarse	45 - 64		••	••	••	9	12.9	92.9	1	3.3	100	10	10	95
2.5 - 3.5	Small	64 - 90	FINE COARSE SAND	••	••	••	2	2.9	95.7	0	0.0	100	2	2	97
3.5 - 5.0	Small	90 - 126		••	••	••	3	4.3	100	0	0.0	100	3	3	100
5.0 - 7.1	Large	126 - 180													
7.1 - 10.1	Large	180 - 256													
10.1 - 14.3	Small	256 - 362	BEDROCK												
14.3 - 20	Small	362 - 512													
20 - 40	Medium	512 - 1024													
40 - 80	Large-Vry Large	1024 - 2048													
	Bedrock														
Stream Type: C4				Valley Type: VIII			TOTAL → 70			30			100		

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