



PETERSEN HYDROLOGIC

East Fork Box Canyon
Field Notes: 25 June 2004
Erik Petersen

Clear, warm day
Dark clouds building during day

Heavy cow activity in canyon. Sediments in stream bottom are disturbed, creek running muddy in locations. Vegetation eaten down in canyon bottom and on hillsides. Soil on hillsides was heavily disturbed in areas.

EFB-14
No flow at surface

EFB-13 South
No flow at surface

EFB-13 North
No flow at surface

EFB-12 South
No flow at surface

EFB-12 North
No flow at surface

“EFB-11C” (new site below EFB-11B, located near head of alluvial development in lower canyon)
 $Q = \frac{1}{2}$ gallon in 3.90 seconds = 7.69 gpm

EFB-11B
 $Q = 3$ gallons in 27.8 seconds = 6.47 gpm



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EFB-11A

Q = ½ gallon in 26.2 seconds = 1.15 gpm

EFB-11

Spring Pines 214

Q = 50 ml. in 3.55 seconds = 0.224 gpm

The flow at Pines 214 was measured just above the confluence of the spring discharge with the East Fork stream channel (see photo). Flow above at rock ledge is through subsurface.

EFB-11 (below Pines 214)

Q = 3 gallons in 19.2 seconds = 9.38 gpm

EFB-10

Q = 13.5 pints in 12.0 seconds = 8.44 gpm

EFB-9

Q = 13.75 pints in 18.3 seconds = 5.64 gpm

EFB-8

Spring

Q = 32 oz in 30.3 sec = 0.495 gpm

EFB-8 (above spring)

Q = 1 gallon in 12.6 seconds = 4.76 gpm

Q = 0.50 + 4.76 = 5.26 gpm total



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EFB-7

Q = 1 gallon in 15.65 seconds = 3.83 gpm

EFB-6

Q = 32 oz in 20.9 seconds = 0.72 gpm
