



*Adopt - A - Beach 2011*



- ❖ *Started with first HFE in 1996*
- ❖ *Currently 44 beaches tracked*
- ❖ *Each image and visit comments are recorded in a database*
- ❖ *Over 2600 records as of January 2011*



❖ *All volunteer photographers*

❖ *Supplies and evaluation funding provided  
by Grand Canyon Conservation Fund*

❖ *And a cooperative agreement  
with the US Geological Survey*

❖ *Degraded Parking,  
loading/unloading*



A photograph of a river in a canyon. The river is muddy brown and flows through a sandy, eroded channel. The banks are steep and show signs of erosion, with exposed roots and sparse vegetation. In the foreground, there is a large pile of rocks and boulders. The background shows high, layered rock walls of the canyon.

❖ *Cutbanks*

❖ *Vegetation encroachment*



❖ *Human impacts*

A photograph of a river flowing through a canyon. The river is muddy brown and flows from the background towards the left. The right bank is a wide, sandy area with sparse green and brown vegetation. In the foreground, there are large, dark, wet-looking rocks. The canyon walls are steep and rocky, with some greenery. The sky is blue with some clouds.

❖ *Wind scour / deposition*

# ❖ *Rain event erosion!!*

river  
mile/site: 29.2 <sup>Silver Grotto</sup>

date: 10 19 10  
m d y

time: 9AM

06 Rain  
Event Gully/cut











❖ *Other !!*



❖ *Results of High  
Flow Experiments*



river  
mile/side:

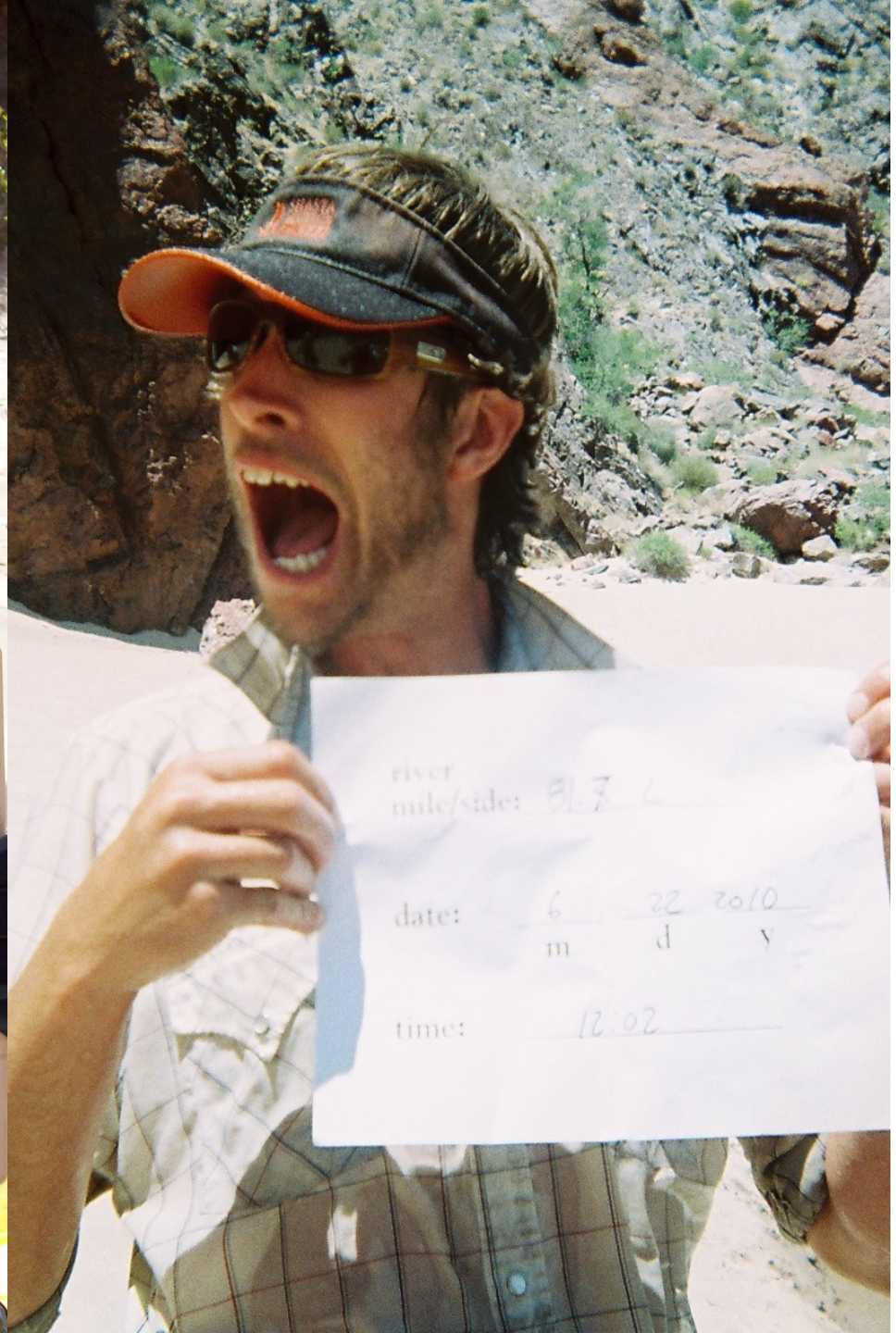
Nevills  
76.1 L

date:

4 7 2010  
m d y

time:

9:00



river  
mile/side:

81.7 L

date:

6 22 2010  
m d y

time:

12:02

