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*OK Incoming*  
*1/04/0002* *cc: DD*

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**Date:** 12/15/03 4:02PM  
**Subject:** East Fork Box Canyon Monitoring 12/8 & 11/2003.

The East Fork of Box Canyon was monitored on 12/08/03 for both flow and subsidence cracks and on 12/11/03 for subsidence cracks. (See attached excel spread sheet, map of area, and pictures sent in other emails)

During the 12/08/03 inspection the shelter looked about the same. The two stream channel fracture zones appeared the same. A new monitoring site EFB-11A was established several hundred feet downstream of EFB-11. EFB-11A is only an estimated location on the current map and will be corrected when the GPS coordinates are converted to our mine coordinate system. (N 4,317,735 E 471,052 NAD 27 UTM) Observed a new slump on the lower hillside between EFB-10 and EFB-11. (30 feet high x 40 feet wide) Some groundwater was observed leaking from the ground where the slump had occurred.

During the 12/11/03 inspection the shelter looked about the same. The two stream channel fracture zones appeared the same. The flow is still being temporarily disrupted by flowing beneath the buckled zones and reappears about 30 feet below the sites. The new slump found on 12/08/03 has partially filled in the channel and is backing some water up in the stream at the waterfall pool below EFB-12 (See pictures). Groundwater was still observed leaking from the slump area.

Mike

<<3LPE WEEKLY MONITORING PDF 12-15-03.pdf>> <<East Fork Sites.xls>>

Post-It® Fax Note	7671	Date	12/29/03	# of pages	3
To	Dana Dean	From	Pete Hess		
Co./Dept.	SLO-DOG/M	Co.	FEO/DOG/M		
Phone #	East Fork Monitoring Table	Phone #			
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**Date:** 12/22/03 10:32AM  
**Subject:** East Fork Box Canyon Monitoring 12/15&17/03

The East Fork of Box Canyon was monitored on 12/15/03 for both flow and subsidence cracks and on 12/17/03 for subsidence cracks. (See attached excel spread sheet, map of area, and pictures sent in other emails)

During the 12/15/03 did not observe any significant new tension cracks in the stream channel.

During the 12/17/03 inspection the shelter looked the same. Did not observe any significant new tension cracks in the stream channel. The stream channel fracture zones appeared the same. The flow is still being temporarily disrupted by flowing beneath the fractured zones and reappears about 30 feet below the sites. The new slump found on 12/08/03 has not changed since then. Groundwater was still observed leaking from the slump area. It is apparent that there is somewhat less ice cover in the stream channel between EFB-10 and EFB-11 than previously, possibly a result of additional groundwater inflow into the stream in this region. Elsewhere, the stream channel and spring discharge areas are more frozen than last week. A large rock and some smaller ones broke off the upper outcrop approx. 20' south of EFB-12 South spring area. Observed two new cracks in the rock outcrop above EFB-14.

Mike

<<3LPE WEEKLY MONITORING PDF 12-22-03.pdf>> <<East Fork Sites.xls>>

EAST FORK OF BOULDER CANYON FLOW MONITORING

DATE	EFA-1		EFA-2		EFA-3		EFA-4		EFA-5		EFA-6		EFA-7		EFA-8		EFA-9		EFA-10		EFA-11		EFA-12		EFA-13		COMMENTS
	Flow (gpm)	Wick (ft)																									
11/02/03	0.00	NA	Remains empty and clean and unobstructed. No flow observed.																								
11/07/03																											The water level remaining after and into of basin (EFA-1) wicks show in the canyon and it was showing moderately during moderate large portions of the stream channel were observed by low water flow.
11/09/03																											Flow at EFA-10 is only partial flow since on the channel. It is to be observed. We were able to get into a position of the flow. Actual flow would be at least a few gpm more. EFA-11 - Spring 214 was showing approx. 18 ft from the previous measured flow rate. Probably not true rate. EFA-11 stream flow includes Spring 214 flow.
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