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## FW: South Fork of Quitchupah Monitoring

1 message

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**Vicky Miller** <vmiller@bowieresources.com>

Mon, Jul 20, 2015 at 9:42 AM

To: Steve Christensen <stevechristensen@utah.gov>, Amanda Daniels <amandadaniels@utah.gov>, "Hamilton, Rob -FS (rhamilton@fs.fed.us)" <rhamilton@fs.fed.us>, "OGMCOAL@utah.gov" <OGMCOAL@utah.gov>

Cc: John Byars <jbyars@bowieresources.com>, Wyatt Shakespear <WShakespear@bowieresources.onmicrosoft.com>, Vicky Miller <vmiller@bowieresources.com>

A map showing the location of mining through July 12, 2015 has been attached. We have included three weeks of creek survey information with this report.

June 29<sup>th</sup> the creek flow at the culvert was approx. 45 gpm, No. Duncan Flat pond had a puddle in the bottom, the other two ponds were dry. Water was observed to be flowing above the rubble area. Springs were observed to be flowing at a rate similar to previous observations.

June 30<sup>th</sup>, water at the road crossing was flowing at 50 gpm, water could be seen flowing in the canyon. Plans have been formulated to hike the channel in the bottom of the canyon to verify that water is flowing the entire length. Because of vegetation most of the channel is obscured from the rim of the canyon.

On the 6<sup>th</sup> of July the flow at the road crossing through the culvert was estimated at 50 gpm. The water was muddy due to rain and cattle watering on the creek. No. Duncan Flat pond contained water but the other two ponds were dry. Water could be seen or heard above monitoring site 006C, but not below the rubble area.

July 8 the flow at the culvert was 60 to 80 gpm again due to rain. The vegetation is still green and the grasses are tall. The bottom of South Fork was hiked below the rubble area to check flow and water was not running immediately below the rubble. We repaired several cracks in the stream channel which improved the flow below the rubble.

July 13<sup>th</sup> the creek was still running at approximately 60 -80 gpm at the culvert road crossing. Flow was observed through the length of the creek varying from the approximate 80 gpm to 10 gpm.

July 14<sup>th</sup> flow at the road crossing was approximately 110 gpm due to a storm. Flow below the rubble area was approximately 70 gpm. No. Duncan Pond contained water but the other two ponds were dry. The springs above the road crossing were observed to be flowing at their regular rate.

Please contact me with questions or if you need additional information. Thanks, Vicky

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**From:** Vicky Miller

**Sent:** Sunday, July 5, 2015 7:54 AM

**To:** 'Steve Christensen; 'Amanda Daniels ([amandadaniels@utah.gov](mailto:amandadaniels@utah.gov))'; 'Hamilton, Rob -FS ([rhamilton@fs.fed.us](mailto:rhamilton@fs.fed.us))'; [OGMCOAL@utah.gov](mailto:OGMCOAL@utah.gov)

**Cc:** John Byars; Wyatt Shakespear; Vicky Miller

**Subject:** South Fork of Quitchupah Monitoring

South Fork was monitored on June 15, 17, 22 and 26th. The conditions were as follows:

June 15 - Flow at the culvert road crossing was approximately 25 gpm. The vegetation continues to be green and vigorous along the creek corridor. Flow was observed in the upper canyon.

June 17 - North Duncan Flat pond was 1/4 full, the other two ponds were dry but the bottoms were well vegetated. Flow at the culvert crossing was about 20 gpm. Water could be seen flowing from the western most canyon rim observation point. The remainder of the channel to the junction of the south fork and north fork was obscured by vegetation or rock falls. Crack located in the channel at the eastern end of the canyon was filled with bentonite. Springs west of the culvert were flowing at a rate similar to previous observations.

June 22 - Flow at the culvert road crossing continues between 20-25 gpm. The flow at the junction of the south and north fork from the south fork was approximately 3 gpm. We continue to assess the flow over the length of the South Fork.

June 26 - Flow remains consistent with the measurement earlier in the week, North Duncan Flat pond was just a puddle. Flowing water was observed along the length of the channel from the top spring to mid canyon.

A drawing showing the location of mining is attached. Please contact us with questions or concerns.

Regards, Vicky

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**2 attachments**



**Mining July 12 2015.pdf**

239K



**Presentation 7 17 2015C.pptx**

3093K