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# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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January 31, 2012

TO: Internal File

THRU: Joe Helfrich, Team Lead   
Steve Christensen, Permit Supervisor 

FROM: Amanda Daniels, Environmental Scientist II, Hydrologic Review AD

RE: Midterm Permit Review, Canyon Fuel Company, LLC, Gordon Creek 2, 7, & 8, C/007/0016, Task ID #3981

## SUMMARY:

The Division initiated a Mid-term Permit Review of the Gordon Creek 2 / 7 and 8 Mines on December 1, 2011. The mine has been reclaimed and received Phase II bond release on all but 1.63 acres on March 7, 2007. The 1.63 acres contained a three-cell sediment pond which was reclaimed in October 2007. Water monitoring requirements for the period after Phase II bond release until final bond release are described in the MRP on page 7-56 and in Tables 7-17 and 7-18. This Technical Memorandum reviews the hydrologic monitoring plan for the mine.

The findings in this memo are based on a review of the current Mining and Reclamation Plan (MRP).

**TECHNICAL MEMO**

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**TECHNICAL ANALYSIS:**

**RECLAMATION PLAN**

**HYDROLOGIC INFORMATION**

Regulatory Reference: 30 CFR Sec. 784.14, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-301-512, -301-513, -301-514, -301-515, -301-532, -301-533, -301-542, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-733, -301-742, -301-743, -301-750, -301-751, -301-760, -301-761.

**Analysis:**

**Hydrologic Reclamation Plan**

Water monitoring requirements for the site four stream sites, 2-2-W is an intermittent stream site and 2-7-W, 2-8-W, and 2-9-W are ephemeral stream sites. These sites are monitored quarterly for flow. Field measurements and laboratory parameters to be monitored are outlined in Table 7-18 if the MRP. The Permittee is not required to monitor any springs or wells at the Gordon Creek 2, 7, & 8 Mine. Monitoring for UPDES discharges is no longer required as the sediment ponds and mine portals have been reclaimed.

Current water monitoring reports have shown that stream flow for the four monitoring sites range from 15 gpm to 1440 gpm. In the last year and a half the ephemeral stream sites have reported flow once, while the intermittent site has consistently reported flow each quarter.

**Findings:**

The Gordon Creek 2, 7, & 8 Mine has four monitoring sites that have reported useful and relevant data. The monitoring for this site appears to be using the best methods available and should be maintained.