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State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
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October 31, 1994

Jerry Nettleton  
TerraMatrix/ACZ Inc.  
P. O. Box 774018  
Steamboat Springs, Colorado 80477

Re: Baseline Hydrologic Monitoring Plan, Cyprus Plateau Mining Corp., Willow Creek Mine, ACT/007/038, Folder #3, Carbon County, Utah

Dear Mr. Nettleton:

The Division has completed a review of your draft baseline hydrologic monitoring plan for the Willow Creek Mine. It appears that the plan is suitable for its intended purpose and if followed should provide adequate baseline hydrology information to support Cyprus's application for a mine. Please review the enclosed memo which discusses the review. You should understand that the specific needs of the Division may change throughout the baseline sampling period and adjustments may be needed.

It is understood that this plan covers only hydrologic data collection. Other baseline data (geological, climatological, biological, etc.) will need to be collected in order to support a mine application. Thank you for your help during the permitting process. Please call if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Daron R. Haddock".

Daron R. Haddock  
Permit Supervisor

Enclosure

cc: B. Grimes, Cyprus Plateau  
S. Johnson

BASELINE.WIL





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October 28, 1994

TO: Daron Haddock, Permit Supervisor

FROM: Steven M. Johnson, Reclamation Hydrologist *SMJ*

RE: Draft Review, Baseline Hydrologic Monitoring Plan, Willow Creek, Cyprus Plateau Mining Corp., ACT/007/038, Working File, Carbon County, Utah

**SYNOPSIS**

Cyprus Plateau Mining Corporation asked for Division comment on a draft of the baseline hydrologic monitoring plan for the proposed Willow Creek mine. The plan has been reviewed for completeness under the Utah Coal Mining Rules.

**ANALYSIS**

The current draft of the Willow Creek baseline monitoring plan is appropriate and appears to be nearly complete. There is one issue left that must be clarified. Section 3.3, Table 2 shows spring and stream sampling from June 1994 to March/April 1995. This includes four laboratory samples for each, one sample in each season. It is understood that sampling should actually be completed in two consecutive years. Table 2 should be modified to show two complete years of sampling for discharge and water quality.

It is understood that this plan covers only the hydrologic sampling portion (R645-301-724.100 and R645-301-724.200) of the baseline data collection. Information will need to be collected on the geologic and climatologic baseline per R645-301-724.300 and R645-301-724.400. All this information will be used in the formulation of the probable hydrologic impact assessment, the operational sampling, and designs.

**RECOMMENDATION**

The current draft of the baseline hydrologic sampling plan is nearly complete with the exception of the number of samples to be taken. Cyprus Plateau should continue sampling as outlined in the plan with the understanding that the specific needs of the Division may change throughout the baseline sampling period.

BLMP.SJ

