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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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TECHNICAL FIELD VISIT

Date : August 28, 1998
DOGM Staff: Sharon Falvey and Robert Davidson
Attendants: Buzz Garrick and Sam Bamberg, Western States Minerals Corp.
RE: Phase II Bond Release Application, Western States Minerals Corp., J.B. King Mine, ACT/015/002, Emery County, Utah.

Purpose:

- To assist the operator in providing information relative to bond release application relative to vegetation establishment and erosional stability.

Background:

- The Division received the 1998 Vegetation Monitoring Survey for the J.B. King reclaimed mine on August 13, 1998. The vegetation survey and report were done by Bamberg Associates during June 1998 and July 1998, respectively. This vegetation survey report does not constitute the actual Phase II Bond Release Application, but it is the intent of Western States Minerals Corporation to seek Phase II bond release for the J.B. King project during 1998. The vegetation report will be an integral portion of the bond release application package. The survey concludes that the J.B. King site exceeds the reference area for vegetative/plant cover and therefore qualifies for bond release.
- Western States Minerals also requested a field visit to the J.B. King reclaimed site with the Division to help address erosional stability requirements and regulations.

Observations:

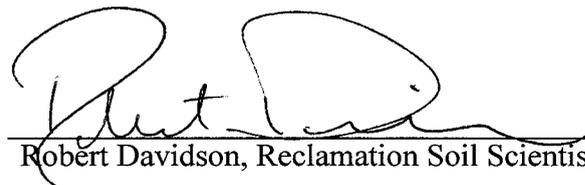
- The reclaimed site and reference areas vegetation was observed with discussion focussed on the vegetation survey report that was submitted to the Division on August 13, 1998. Survey procedures, statistical approach, and conclusions were all reviewed.
- Erosion patterns and features within the reclaimed site were observed, discussed and compared to similar features outside the site.

Recommendations/Conclusions:

- The following points were recommended for inclusion in the bond release application as it applies to hydrology and erosional stability:
 - Complete, summarize and finalize the on-site erosion survey results.
 - Compile information from the annual pond surveys to quantify the sediment deposited in the sedimentation pond over time.
 - Provide a discussion on land form and potential long term erosive activity at the site as it relates to the land form, postmining land use, and site specific characteristics.

- Provide a transfer for water rights at the well and sedimentation pond at the J.B. King site. Provide water quality analyses to demonstrate the water quality meets the criteria for the proposed use and other applicable water quality standards for the state. (Note: a discussion to demonstrate the pond is adequate for the proposed use should include a discussion on water availability provided by the sedimentation pond.
- Complete a survey for drainages to show that they meet the minimum design standards in the plan.
- Conflicting vegetation survey conclusions between Bamberg Associates and Susan White still need to resolved.

Signature:  on September 1, 1998
Sharon Falvey, Reclamation Hydrologist

Signature: 
Robert Davidson, Reclamation Soil Scientist