

0018

**From:** Pete Hess  
**To:** Daron Haddock; Jim Smith; Pam Grubaugh-Littig  
**Date:** 8/22/2007 3:36 PM  
**Subject:** Storm Exceedance @ Wildcat Loadout on August 6, 2007  
**Attachments:** 20070822152852.pdf; 20070822152745.pdf

*Outgoing  
d/007/0033*

Please find attached the analysis prepared by Blackhawk Engineering relative to the three storm events at Wildcat Loadout on August 6, 2007. The memo addresses, in my opinion, the requirements of Associate Director of Mining Mary Ann Wright's tech memo on this type of situation dated March 23, 1999.

All repairs at the site have been completed, as confirmed 8/21/2007.

No violations were issued as a result of the damage caused by the three high intensity / short duration storms.

I believe that as time and funding permits, changes will be permitted to the design of the culverts connecting the upper and lower cells of the permanent impoundment to minimize erosion potential (east side outslope of the primary road through that area).

If you have any questions, please call.

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

Michael O. Leavitt  
Governor

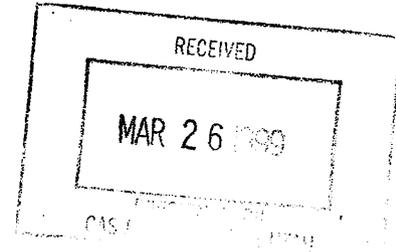
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Pete

March 23, 1999



TO: Coal Staff  
FROM: Mary Ann Wright, Associate Director, Mining  
RE: Storm Exceedences

Occasionally, mining operations receive precipitation events that result in deterioration and or damage to drainage control structures. Permittees often attribute the damage to an exceedance of the design storm and conclude that they are not responsible for effluent limitations or off site impacts. Calculations are performed and curve numbers are provided to support antecedent moisture conditions. The following procedure should be followed in order to accurately define the possibility of a design storm exceedence.

**The permittee will be requested to provide the following information:**

- Data from a precipitation gauge located at the mine site capable of recording peak storm information.
- Cross sectional data and identification of high watermarks located along ditch banks or sediment control structures which accurately represent the most recent storm in consultation with division staff.

**The assigned staff hydrologist / reclamation specialist will:**

- Attend on site visits with mine personnel to photograph and record information associated with the storm event.
- Verify that the design flow is estimated correctly in the MRP.
- Analyze the information provided by the permittee using Mannings Open Channel Flow equation.
- Provide recommendations to appropriate staff.