

*Internal*  
*8/07/07*

**From:** Pete Hess  
**To:** Daron Haddock; Jim Smith; Pam Grubaugh-Littig  
**Date:** 8/7/2007 1:53 PM  
**Subject:** Storm Event(s) at Wildcat on August 6, 2007  
**Attachments:** DSCN2077.JPG; DSCN2079.JPG; DSCN2081.JPG; DSCN2082.JPG; DSCN2084.JPG; DSCN2085.JPG; DSCN2088.JPG; DSCN2090.JPG; DSCN2093.JPG; DSCN2098.JPG; DSCN2099.JPG; DSCN2100.JPG; DSCN2101.JPG; DSCN2102.JPG; DSCN2104.JPG; DSCN2105.JPG; DSCN2106.JPG

The Permittee (Scott Dimick) notified the Division on August 7, 2007 @ 9 AM that the Wildcat Loadout received heavy rainfall between the hours of 1 PM and 11 PM (10 hour period) on 8/6/2007. This initial report indicated that approximately 1.75 inches of rainfall was received during the first two hour period, and a second storm delivered 0.25 inches during a second storm about 11 PM (30 minute duration).

Mr. Dimick requested that the Division visit the site in order to document flooding on the west side of the disturbed area as well as any storm damage to diversions or other sediment controls within the disturbed area.

In light of instruction from Division management to stand down on all mine inspections from 8/6 until further instruction, a courtesy inspection of the Wildcat site was performed on 8/7 from 9:30 until 11:15 AM.

A check of the precipitation / rainfall records maintained in the site's scale house was made with the following being noted;

- 1) three events actually occurred on 8/6 during the period from 1 PM until 11 PM.
- 2) Rainfall amounts from each event were recorded as follows; 1.15 inches in less than a one hour period. 2) The second event produced 0.2 inches of rainfall (duration unknown). 3) The third event which occurred at approximately 11 PM dropped 0.75 inches of rainfall in a time period estimated to be 30 minutes.
- 3) The total rainfall from the three events is calculated to be 2.1 inches in an approximate 10 hour time period.

The following was noted during the courtesy visit of 8/7 by Division personnel;

- 1) Impounded water was observed on the surface of the refuse pile.
- 2) All of the sites six sediment ponds contained water at various depths; pond "E" was noted as having discharged to Wildcat Wash during the event. A high water mark on the pond "E" primary discharge culvert (C-14) appeared to have a depth of approximately 4.5 inches ( 18 inch CMP). The water elevation in pond "E" at the time of today's visit was about 15 inches below the elevation of the secondary open spillway. There was no evidence of erosive action at the outlet of C-14 where it discharges to Wildcat Wash. The discharge end of the half-round culvert identified as DI-24 on PLATE 2 in the MRP (inlet diversion to pond "E") received extensive erosion beneath this diversion in that the metal was deformed.
- 3) Several ditches at the site were damaged to the extent that water was able to flow across the road.
- 4) The depression area which the Permittee uses for coal storage was flooded. The Permittee was making preparation to de-water this area in order to resume coal loading activities.
- 5) The outlet of the 18 inch CMP which connects the upper and lower cells of the permanent impoundment received extensive erosion which will require repair.
- 6) The remaining items observed at this site can be couched in a general maintenance category which the Permittee works on in a continuous basis. The site appears to be in good condition in consideration of the amount of rainfall received.

The Division requested that the Permittee provide the following information relative to the storm events;

- 1) data from the precipitation gauge located at the Mine site capable of recording peak storm information.
- 2) Cross section data and identification of high water marks located along ditch banks or sediment control structures which accurately represent the most recent event in consultation with Division staff (Please refer to Associate Director of Mining MAW's memo of 3/23/99 relative to Storm Exceedances).

Other areas of the disturbance which utilize other sediment control measures were noted as having effectively treated any runoff reporting to them. There was no evidence of any offsite impact at the site.

A review of the Wildcat MRP, Chapter 7, Table VII-2, page 7-12 indicates that, based upon the recorded precip data from the site, the total of 2.1 inches during the ten hour time frame exceeded the 50 year 12 hour event.

The 10 year 24 hour design event for the Wildcat Loadout area is listed as having a water depth of 1.82 inches (Table VII-

2) (R645-301-742.221.33 and 742.231). Therefore it appears that the actual events which occurred during the 10 hour time frame exceeded the design event (10 year 24 hour) for the Wildcat drainage control facilities.

Photos taken during courtesy visit of 8/7 are attached.

Please call if you have any questions.