

**Kulis, Jerzy, NMENV**

From: Kulis, Jerzy, NMENV
Sent: Wednesday, August 11, 2010 3:27 PM
To: 'Everett, Mark C'; Cobrain, Dave, NMENV; Dale, Michael, NMENV
Cc: Shen, Hai; Whitacre, Thomas J; Mignardot, Edward R Jr; 'drilling@lanl.gov'
Subject: RE: R-60 EZ-MUD request

Mark,

NMED approves the use of EZ-MUD polymer in drilling of well R-60 as described in your e-mail below, with the following conditions:

1. In accordance with Section X.B.3 of the 2005 Consent Order, if EZ-MUD polymer is used as a drilling additive, LANL must use a dispersant to chemically break down EZ-MUD and remove (flush-out) its residues from the R-60 borehole. This action must be performed prior to drilling into the regional aquifer. LANL must follow EZ-MUD manufacturer's (Baroid) recommendations on the selection and use of a suitable dispersant (for example, non-perfumed 5% sodium hypochlorite [liquid household bleach]).
2. LANL must collect a sample of cleanup water at the completion of the removal of residual EZ-MUD from the borehole, prior to drilling into the regional aquifer, and analyze it for TOC in order to assess the need for additional cleanup of residual EZ-MUD during well development. LANL must submit to NMED the results of TOC testing as soon as they become available.

Please let me know if you have any questions.

Jerzy Kulis
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Hazardous Waste Bureau
New Mexico Environment Department
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From: Everett, Mark C [mailto:meverett@lanl.gov]
Sent: Wednesday, August 11, 2010 1:19 PM
To: Kulis, Jerzy, NMENV; Cobrain, Dave, NMENV; Dale, Michael, NMENV
Cc: Shen, Hai; Whitacre, Thomas J; Mignardot, Edward R Jr; 'drilling@lanl.gov'
Subject: R-60 EZ-MUD request

Jerzy,

As a follow up to our phone conversation this afternoon I am writing to request the use of EZ MUD polymer to help get the drilling tools unstuck at well R-60. The current depth of the borehole is 886 ft and the projected depth to groundwater is 1339 ft. the drillers would like to add an EZ MUD solution of 1 qt/100 gal. water to the borehole annulus until we can get the tools free. I anticipate no more than 500 gal. of this solution will be needed and we should cease introduction of the fluid before reaching 900 ft. Please respond to this e-mail with your concurrence.

Thanks,

33865



8/11/2010



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