

Engineers, Geologists, Hygienists and Environmental Scientists



Raba Kistner Consultants, Inc.
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Project No. ASD97-187-00
Assignment No. 4-121973
May 27, 1997

Mr. Rob Newson

105 W. Sharp
El Dorado, Arkansas 71730

Re: Permeability Testing
Cowboy Mining
Alpine Texas

Dear Mr. Newson:

On May 20, 1997, we received a sample of bentonite for laboratory testing. The sample was processed over a No. 40 sieve and remolded for testing. Results of the permeability test are presented below:

* Permeability (ASTM D 5084): 1.9×10^{-9} cm/sec

* Results are based on pulverized material.

Due to the limited testing conducted, no design recommendations are expressed or implied by Raba-Kistner (R-K).

We appreciate the opportunity to be of technical service to you on this project. If we may be of additional assistance, please do not hesitate to call.

Very truly yours,

RABA-KISTNER CONSULTANTS, INC.

Paul R. Lampe
Associate
Construction Material Services

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Copies submitted: Above (1)