



7 July 2014

**ATTN: Document Control Desk**

Director, Office of Federal and State Materials and Environmental Management Programs  
U.S. Nuclear Regulatory Commission,  
Washington, DC 20555-0001

**ATTN: Mr. Jack Parrott, Sr. Project Manager**

Reactor Decommissioning Branch (Mailstop T-8F5)  
Division of Waste Management and Environmental Protection  
Office of Federal and State Materials and Environmental Management Program  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**RE: Tripolyphosphate (TPP) Alluvial Pilot Testing Summary Report**

Mr. Parrott:

In reference to the acknowledgement found in the 21 March 2013 letter from NRC to proceed with pilot testing of *in situ* uranium recovery pilot investigations involving the use of tripolyphosphate (TPP) injections, and in reference to a similar approval granted by the 14 February 2013 letter from the New Mexico Environment Department concerning the same matter, please find the attached summary report.

Please consider the enclosed report as a status update regarding the initial findings of Homestake's TPP pilot test work. Based on these initial investigations, Homestake has concluded that, while the results are very promising, more information is necessary before TPP can be proven as a viable *in situ* treatment technology. Accordingly, Homestake intends to pursue additional, follow-up pilot testing to determine whether or not TPP is appropriate to include in Homestake's suite of water remediation technologies.

Should you have any questions, please feel free to call me directly at 505.290.3067.

Respectfully,

Jesse R. Toepfer  
Closure Manager  
HOMESTAKE MINING COMPANY OF CALIFORNIA

CC: Mr. David Mayerson – New Mexico Environment Department, Santa Fe, New Mexico  
Mr. Sai Appaji – United States Environmental Protection Agency Region 6, Dallas, Texas  
Mr. Bill Ferdinand, Barrick – Salt Lake City, Utah  
Mr. Patrick Malone, Barrick – Salt Lake City, Utah  
Mr. Jon Indall, Comeau, Maldegen, Templeman & Indall – Santa Fe, New Mexico  
Mr. George Hoffman, Hydro-Engineering – Casper, Wyoming  
Mr. Phillip DeDycker, ARCADIS USA – Cherry Creek, Colorado

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