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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL HEALTH AND ENVIRONMENTAL EFFECTS RESEARCH LABORATORY
RESEARCH TRIANGLE PARK
NORTH CAROLINA 27711

MEMORANDUM

DATE: January 29, 1999

SUBJECT: Analysis of Perchlorate

FROM: Martha M. Moore, Chief (MD-68) Martha Moore
Genetic & Cellular Toxicology Branch

TO: Vicki Dellarco, (MD7509C)
Office of Pesticides Programs
Annie Jarabek, (MD-52)
Toxocologist

I have reviewed the mouse lymphoma data generated in the repeat analysis of perchlorate and based on this information, I am confident that the data are sufficient to determine the chemical to be nonmutagenic both with and without S9 activation. While I am a little concerned that the background mutant frequency is too low, particularly in the without S9 experiment, this data set looks overall to be very good. It is internally very consistent. The problems that were observed in the data generated by the first laboratory are not present in the data from this laboratory. The issue of low background mutant frequency relates to whether the laboratory is adequately quantitating all of the mutants. I think that the mutant colony sizing curves that are included in the data provides sufficient evidence that the laboratory is quantitating mutants properly.