SUMMARY

This report presents the results of the Applied Materials Building 1 (the Site) ground water monitoring and remediation program from February 2001 through January 2002. This report also summarizes other activities performed in compliance with the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), Site Cleanup Requirements Order No. 90-134, as amended by Order No. 93-056.

Ground water monitoring tasks at the Site during the February 2001 through January 2002 reporting period included:

- Sampling and analyzing ground water for volatile organic compounds (VOCs) on January 15 and 16, 2002;
- Measuring water levels in Site monitoring and extraction wells on July 11, 2001, and January 15, 2002;
- Preparing ground water elevation and VOC isoconcentration contour maps; and,
- Monitoring the ground water extraction and treatment system operation, flow rates, and chemistry.

Ground water samples from four select Site wells were also analyzed for natural attenuation parameters in January 2002, as requested in September 2000 (Weiss; 2000) and approved by the RWQCB in November 2000 (RWQCB, 2000). Additionally, in January 2002, four wells were sampled for 1,4-dioxane, as requested by the RWQCB in December 2001(RWQCB, 2001a).

Currently, A2-zone extraction well AM1-10 is the only active ground water extraction well at the Site. Between February 2001 and February 2002, extraction well AM1-10 pumped an average of 0.47 gallons per minute (gpm). The air stripper, which treated extracted groundwater to criteria specified in the Site National Pollutant Discharge Elimination System (NPDES) permit until May 19, 2001, is currently treating extracted ground water to criteria specified by the San Jose/Santa Clara Water Pollution Control Plant (WPCP) Industrial Wastewater Discharge Permit No. SC-043A (Site Discharge Permit).

VOC concentrations in A-zone and A2-zone ground water remained relatively stable or decreased during this reporting period as compared to the same period last year. To date, no "trigger" levels have been exceeded, indicating the current extraction and treatment program is providing hydraulic containment of the plume and is progressing toward cleanup standards in an acceptable manner. There is no anticipated change in the Site building usage over the next calendar year, and no additional remedial action is planned within this time frame.