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TO: Bill Olson, Chief  
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FROM: John E. Kieling, Program Manager  
Permits Management Program *JK*

CC: James P. Bearzi, Chief, Hazardous Waste Bureau  
Will Moats, Staff Manager, Hazardous Waste Bureau  
William McDonald, Environment Scientist & Specialist, Hazardous Waste Bureau

**SUBJECT: PHILIPS SEMICONDUCTOR**

DATE: April 28, 2005

Philips Semiconductors, Albuquerque, New Mexico (PSC), has submitted to the Hazardous Waste Bureau (HWB) their RCRA Facility Investigation (RFI) report for Solid Waste Management Unit (SWMU) 8: Former Coronado Municipal Landfill (CMLF). SWMU 8 is the only Corrective Action Unit remaining on PSC's HSWA (RCRA) Permit. HWB intends to approve SWMU 8 for No Further Action (NFA) and Public Notice our decision by late May 2005. HWB requests that GWQB review the information below; if there are any concerns a meeting should be scheduled for discussion. If additional information is needed or GWQB personnel wish to review the RCRA Facility Investigation report/NFA proposal, please contact William McDonald at 284-5409.

History of Decision

PSC sits atop the southern part of the CMLF which they began characterizing in 1981. Underlying SWMU 8 is a PCE plume which PSC began monitoring in 1987. In general, PCE in groundwater has declined from initial levels as high as 30 ug/l in 1989 to approximately 6 ug/kg in June 2004. However, as PCE levels are currently oscillating, sporadic recurring detections as high as 10 ug/l may occur in the future. Following review of PSC's RFI report and discussions with Baird Swanson (GWQB) and Chuck Thomas (DWB) I have determined: 1) City well fields/wells downgradient of PSC are not contaminated with detectable levels of PCE; 2) There is no evidence that private wells downgradient of PSC are contaminated with PCE; 3) Sumitomo/SUMCO is a small

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generator that does not use PCE instead, pure water is used to clean silicon wafers before shipment to Intel; 4) former Coronado Municipal Landfill is the source of the PCE plume -- likely the northern City-owned part of the landfill; 5) City has informal agreement with GWQB to accept responsibility for PCE plume and to continue monitoring the plume; 6) GWQB has concluded that the PCE plume is dissipating before it reaches potential receptors.

Hazardous Waste Bureau has determined that SWMU 8 (PSC, Albuquerque) is suitable for No further Action Determination because the source of the PCE plume is not on PSC property. 1999 soil gas survey (SGS) results support this as TCE vapor analyses from 87 locations across the CMLF resulted in PCE detections at 27 locations; only one of the 60 SGS locations on PSC property had PCE detected greater than 2 ug/kg. SGS results from the northern part of the CMLF yielded PCE vapor concentrations twice as high: up to 4.7 ug/kg.

If you have any questions please contact William McDonald, at 284-5409, or Will Moats at 284-5086.