

Intel Corporation
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Hillsboro, OR 97124-6497

(503) 696-8080



September 24, 1998

Jim Anderson
Project Manager
Voluntary Cleanup and Site Assessment
Oregon Department of Environmental Quality
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987

Re: Intel Aloha Campus
Soil Gas Sampling

Dear Mr. Anderson:

Enclosed for your review is the Soil-Gas Sampling Report summarizing monitoring activities which occurred in June of this year at the Intel Aloha campus. The report was prepared by Dr. Ralph Moon of HSA Engineers and Scientists, who performed the monitoring.

The monitoring report discusses in detail the steps taken to determine the appropriate monitoring locations and methods, as well as summarizing the actual field activities and analytical results. In summary, no vapors were detected by the monitoring, indicating migration of vapors through the soil does not represent a threat to human health or the environment.

I would be happy to discuss this report with you in greater detail. Please call me at 591-4725 if you have any questions or wish to discuss the monitoring in greater detail. If you have technical questions about the report, please feel free to contact Ralph Moon at (813) 971-3882.

Sincerely,

A handwritten signature in cursive script, appearing to read "Michael Bernard".

Michael Bernard
Intel Corporation

cc: Rich Sedman, DEQ. with enclosure
Russ Bunker, EMCON
Ralph Moon

State of Oregon
Department of Environmental Quality

Memorandum

Date: **

To: Jim Anderson
VCS/NWR

Draft

From: Richard Sedman
VCS/NWR

Subject: Intel-Soil Gas Sampling Report, August 1998.

Samples of soil gas were collected using a flux chamber or from air samples collected from soil borings. None of the samples detected VOCs that are observed in groundwater. However the detection levels that were achieved in the soil gas measurements were far in excess of 10⁻⁶ risk levels or levels associated with the RfD (see below calculations). While it is clear that there is no evidence that anyone on the Intel site is breathing the levels of contaminants detected in the soil gas, indoor air that could be impacted by soil gas is still a concern because detection limits were sometimes four order of magnitude above risk based levels mandated by Oregon cleanup statutes.

Calculations

$$\text{PPM} = \text{ug/cu. m} \times 24.5/1000/\text{MW}$$

Compound Limit	Mean Qual. limit (ppm)	MW	Qual Limit (ug/cu.m)	Conc associated with 10 ⁻⁶ or RfD ^a
1,1 Dichloroethane	0.22 ppm	99	900	50
1,2 dichloroethane	0.22 ppm	99	900	0.07
Tetrachloroethene	0.13	161	850	3.3
1,1,2-Trichloroethane	0.16	131	860	0.1

^aRegion 9 PRGs for ambient air

ANDERSON Jim

From: SEDMAN Richard
Sent: Monday, October 12, 1998 11:06 AM
To: ANDERSON Jim
Subject: Intel soil gas investigation

I prepared the attached memo to archive my concerns.



intel-soil gas
sampling