**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION IX**
**75 Hawthorne Street**
**San Francisco, CA 94105**

March 22, 2016

Ex. 6 Personal Privacy (PP)
Sunnyvale, CA 94085

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**Re: Vapor Intrusion Indoor Air Sampling Results**
**Residential Building # 114 Ex. 6 Personal Privacy (PP), Sunnyvale, CA 94085**
**Philips, Advanced Micro Devices 901-902, TRW Microwave Superfund Sites ("Triple Site")**

Dear Ex. 6 Personal Privacy (PP)

Thank you for your cooperation and participation in the U.S. Environmental Protection Agency's (EPA) vapor intrusion indoor air sampling investigations in Sunnyvale, California. This letter confirms in writing the results of EPA's indoor air sampling for trichloroethene (TCE), conducted at your home in November 2015.

***Your TCE Indoor Air Results:*** EPA considers TCE levels below 2.0 micrograms per cubic meter ($\mu g/m^3$) to be health protective. Very low levels of TCE were detected in the air inside your home (up to 0.32 $\mu g/m^3$). **These concentrations meet EPA's short-term health protective screening level for TCE (2 $\mu g/m^3$), and EPA's long-term health protective screening level (0.48 $\mu g/m^3$) and do not show any evidence of unacceptable vapor intrusion. However, because these levels can vary over time, EPA would like to test your home again later this year to confirm these findings.**

***Background on EPA Investigation:*** EPA has been investigating the potential for vapor intrusion – a process where vapors from groundwater contamination may migrate into the indoor air in buildings – in the Duane/San Miguel Avenue neighborhood. Please be aware that your drinking water is not affected by contaminants in groundwater. Your water for drinking, bathing and watering gardens comes from the Hetch Hetchy Reservoir in the Sierra Nevada Mountains.

***Health Protection Goals:*** EPA's goal for Superfund site-related chemicals is to keep exposures as low as reasonably possible. EPA considers the safe range of TCE concentrations for residents to be below 2.0 $\mu g/m^3$ (the short-term screening level). When an indoor air sample is collected and shows a concentration above the long-term screening level (0.48 $\mu g/m^3$) but below 2.0 $\mu g/m^3$, EPA uses this information to decide whether additional sampling or response activities are necessary, to confirm that levels continue to remain protective over time. More information about TCE can be found at this website:
http://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=172&tid=30

***More About Your Results:*** Low levels of TCE were detected in the air in your home during the November sampling event. These results are similar to outdoor air levels of TCE measured in your neighborhood. The sample results meet EPA's short-term health protective screening level for TCE (2.0 $\mu g/m^3$) and EPA's long-

term health protective screening level (0.48 µg/m$^3$). The table below shows all the sampling results for your home.

One other compound that is not associated with the Triple Site was detected (perchloroethene or PCE) at low concentrations up to 0.12 µg/m$^3$, below both the long-term health protective screening level of 0.48 µg/m$^3$ and short-term screening level of 36.5 µg/m$^3$.

PCE and TCE belong to a chemical category called VOCs – volatile organic compounds – which are contained in products that may be commonly found around the home (such as silicone lubricants, spot removers, adhesives, wood cleaners and dry-cleaned clothing). Additionally, because PCE is not found in the groundwater beneath your neighborhood, and the PCE concentration detected in the indoor air samples is well below the outdoor air concentrations of PCE measured in your neighborhood, it is likely that the low levels of PCE detected in your home are associated with typical outdoor concentrations of this chemical.

| Sample Location | TCE Concentrations (micrograms per cubic meter or µg/m$^3$) | | PCE Concentrations (micrograms per cubic meter or µg/m$^3$) | |
|---|---|---|---|---|
| | Nov 2015 (24-Hour Samples) | Nov 2015 (14-Day Samples) | Nov 2015 (24-Hour Samples) | Nov 2015 (14-Day Samples) |
| Indoor Air Sample (Living room) | 0.32 | 0.2 | 0.12 | 0.11 |
| Outdoor Air Sample (Range of outdoor air samples in the neighborhood) | 0.028 to 0.62 | | 0.03 to 0.46 | |
| **EPA Screening Levels** | | | | |
| Short-term Screening Level | **2.0** | | 36.5 | |
| Long-term Screening Level | 0.48 | | 0.48 | |

***TCE Vapor Intrusion Findings:*** EPA considers these concentrations protective of your health, and they meet EPA's requirements for safeguarding against potential health effects due to TCE vapor intrusion. The sample results meet EPA's short-term and long-term health protective screening levels for TCE and do not show any evidence of unacceptable vapor intrusion. **However, because these levels can vary over time, EPA would like to test your home again later this year to confirm these findings.**

***Next Steps:*** We will contact you and your property manager later this year to arrange the next rounds of testing. In the meantime, if you have any questions, please contact me at (415) 972-3050 or by e-mail to morash.melanie@epa.gov. Thank you again for your cooperation and participation in this air sampling investigation.

Sincerely,

Melanie Morash

Melanie Morash
EPA Project Manager