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HOOKSTON STATION AND ADJACENT AREAS

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The Water Board has directed the Responsible Parties for the Hookston Station Site to collect air quality samples from homes in a designated area of the Colony Park neighborhood. The following information, from indoor air sampling carried out in 2004 and 2005/early 2006, is intended to help residents understand the indoor air monitoring data for their homes. The tables will be updated as new results are available.

Chemicals detected in Colony Park homes above Water Board screening levels¹

Chemical	Indoor Air Screening Level ($\mu\text{g}/\text{m}^3$) ²	Number of Homes Exceeding Screening Level
Benzene	0.085	42 of 42 homes tested
1,2-Dichloroethane	0.12	8 of 42 homes tested
Tetrachloroethylene ³ (PCE)	0.41	15 of 43 homes tested
Trichloroethylene (TCE)	1.2	9 of 47 homes tested
Vinyl chloride	0.032	1 of 42 homes tested

Chemicals detected in Colony Park homes below Water Board screening levels

Chemical	Indoor Air Screening Level ($\mu\text{g}/\text{m}^3$)
1,1-Dichloroethylene	420
cis-1,2-Dichloroethylene	7.3
trans-1,2-Dichloroethylene	150
Ethyl benzene	420
Methyl tert-butyl ether (MTBE)	9.4
Toluene	63
1,1,1-Trichloroethane	460
Trichloroethylene (TCE)	1.2
Vinyl chloride	0.032

Trichloroethylene (TCE), the chemical that was released at the Hookston site, was used as a metal degreaser. Tetrachloroethylene (PCE) is present in groundwater in the Hookston Station area, but it does not originate from the Hookston Station site and the source is not yet known. PCE is a metal degreaser that is also commonly used for dry-cleaning and as an ingredient in many commercially available cleaners used by homeowners and auto hobbyists. PCE can break down in the environment to form TCE. Environmental breakdown products of TCE include cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, 1,1-dichloroethylene, and vinyl chloride. Benzene, ethylbenzene, toluene, and xylenes are constituents of



gasoline that are commonly detected in urban/suburban air, and are also found in groundwater beneath the Pitcock Petroleum site at 220 Hookston Road.

INFORMATION RESOURCES:

National Institutes of Health: <http://householdproducts.nlm.nih.gov/index.htm>

Lists household products by ingredient. Use the tabs to navigate by product category and ingredient. For example, enter "perchloroethylene" as an ingredient to see a list of well-known products that contain PCE.

U.S. EPA: <http://www.epa.gov/iaq/voc.html>

Discusses volatile organic chemicals in indoor air and ways to reduce potential exposure.

Agency for Toxic Substances and Disease Registry: <http://www.atsdr.cdc.gov>

Contains an abundance of information about chemicals in the environment. The links on the right-hand side of the home page connect to brief fact sheets (ToxFAQs) or very lengthy discourses (Toxicological Profiles).

CONTACT INFORMATION:

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SITE DOCUMENTS:

All primary reports are housed at the Pleasant Hill Library
1750 Oak Park Blvd., Pleasant Hill
Phone: (925) 646-6434.
Hours: M-T-Th: 12-8pm and W-F-S: 10am- 6pm.

Many documents are available on the Water Board's Website:

<http://www.waterboards.ca.gov/sanfranciscobay/sitecleanupdocs.htm>.

¹ *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*

<http://www.waterboards.ca.gov/sanfranciscobay/esl.htm> - See Table E-3 (Volume 2) for Indoor Air. The ESLs are considered to be conservative. Under most circumstances, and within the limitations described in the ESL document, the presence of a chemical in indoor air at concentrations below the corresponding ESL can be assumed to not pose a significant, long-term (chronic) threat to human health and the environment.

² micrograms per cubic meter

³ Also known as perchloroethylene