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Inside **- News about a new software guidance system.**

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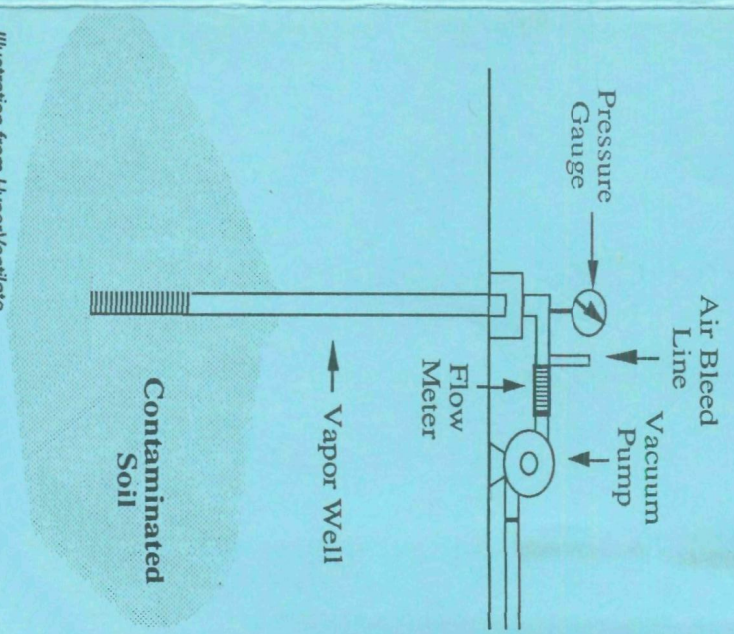


Illustration from HyperVentilate

EPA HyperVentilate

A Software Guidance System Created For Vapor Extraction Systems

United States Environmental Protection Agency
Solid Waste And Emergency Response (OS-420) WF
EPA 510-CB-92-001
August 1992

What Is HyperVentilate?

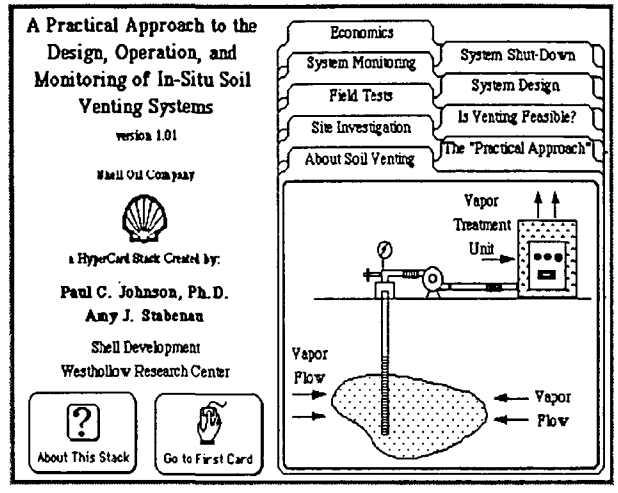
HyperVentilate is user-friendly software that can help you use vapor extraction (soil venting) technology. This software guides the user through a structured thought process that involves:

- Identifying and characterizing required site-specific data,
- Deciding if soil venting is appropriate at a specific site,
- Evaluating air permeability test results,
- Calculating the minimum number of vapor extraction wells needed, and
- Illustrating how the results at a specific site might differ from the ideal case.

HyperVentilate will not completely design your vapor extraction system, tell you exactly how many days it should be operated, or predict the future. *HyperVentilate* is both an educational tool for the novice environmental professional and a functional tool for more experienced users. It performs necessary calculations and contains "help cards" that define the equations used, make the necessary unit conversions, and give supplementary information on related topics. In addition, *HyperVentilate* contains a list of 62 compounds that can be updated by the user to a maximum of 400 compounds.

What Do I Need To Run It?

HyperVentilate version 1.01 for the Apple Macintosh requires an Apple Macintosh (Plus, SE, Classic, LC, II, Portable, or PowerBook) computer equipped with at least 1 MB RAM (2 MB preferred) and the Apple HyperCard Software Program (version 2.0 or greater).



Sample screen from HyperVentilate

An IBM PC-compatible version of *HyperVentilate* for Microsoft Windows/Spinnaker PLUS Version 2.0 is currently being tested. This version will likely require a computer equipped with 80286 processor minimum (80386 recommended), 2 MB RAM minimum (more recommended), EGA (VGA or 8514 recommended), DOS 3.1 or higher, Microsoft Windows 3.x, and Spinnaker PLUS 2.5 or higher. When testing is completed, the PC-compatible version will be also available through the Superintendent of Documents, U.S. Government Printing Office.

Why HyperVentilate?

HyperVentilate software was developed by U.S. EPA and Shell Oil Company under a 1990 Cooperative Research and Development Agreement under the Federal Technology Transfer Act. EPA is facilitating the distribution of *HyperVentilate* because it has found that the software and manual can be helpful tools, especially when teaching users about in-situ soil venting and when guiding them through the structured thought process used to evaluate the applicability of soil venting at a particular site.

HyperVentilate is based on the article "A Practical Approach to the Design, Operation, and Monitoring of Soil Venting Systems" by P. C. Johnson, C. C. Stanley, M. W. Kemblowski, J. D. Colthart, and D. L. Byers, *Ground Water Monitoring Review*, Spring 1990, pp. 159 - 178.

EPA and Shell Oil Company make no warranties, either express or implied, regarding the *HyperVentilate* computer software package, its merchantability, or its fitness for any particular purpose. EPA and Shell Oil Company do not warrant that this software will be error-free or operate without interruption. EPA and Shell Oil Company do encourage testing of this product.

At this time, EPA does not intend to provide technical support for, to update, or to fix any bugs that might be found in this software. Neither the software nor the manual is copyrighted.

How Do I Order?

The HyperVentilate package includes a 3.5" Macintosh diskette and a users manual and is available from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA, 15250-7954. An order form appears on the back of this brochure.