

## **FORM SVE101: SOIL VAPOR EXTRACTION SYSTEMS (SVE) OR GROUNDWATER AIR STRIPPING SYSTEMS**

Submit one application for an authority to construct/permit to operate for the SVE system and one for the air stripping system along with the current fee for each application: (Current fee schedules may be obtained by calling the District or viewing the web site at [www.airquality.org](http://www.airquality.org)). If you plan to have an air pollution control system, you must fill out and submit the form for the appropriate device.

Submit the following information:

1. General System Information:
  - a. Number of vapor wells: \_\_\_\_\_ and/or groundwater wells: \_\_\_\_\_
  - b. Soil vapor extraction pump HP: \_\_\_\_\_
  - c. Maximum design CFM rating: \_\_\_\_\_
  - d. Stack Height, above ground: \_\_\_\_\_
  - e. Stack diameter if round: \_\_\_\_\_
  - f. Inside dimensions of exhaust stack if square or rectangle:  
Length: \_\_\_\_\_, Width: \_\_\_\_\_
  - g. Stack Volume Flow (acfm): \_\_\_\_\_
  - h. Stack Temperature: \_\_\_\_\_
  - i. Velocity of Stack: \_\_\_\_\_
  - j. Type of air stripper: \_\_\_\_\_, Manufacturer: \_\_\_\_\_
  - k. Air stripper blower HP \_\_\_\_\_, Water flow rate(gpm): \_\_\_\_\_
  - l. Total volume flow rate of stack venting the air stripper(acfm): \_\_\_\_\_
2. Estimate of the maximum duration of project: \_\_\_\_\_.
3. Include a summary table of soil boring results and/or groundwater sampling. If a soil vapor extraction pilot test study was conducted, please include a summary table of results.
4. Submit your estimates of the emission rates (lbs/day) of Total ROC, benzene, MtBE, and all other toxic air contaminants and acid gases.
5. Submit any manufacturer's specifications/drawings of SVE and/or Air Stripper System:
6. Supply a flow type drawing dimensioned and to scale and specify the following:
  - a. Flow type diagram indicating inside dimensions such as the stack diameter if round or dimensions if square. Show stack height, vertical or horizontal shape of stack, type of stack caps etc.
  - b. Show stack volume flow rate measurement locations.
  - c. Show influent and effluent temperature measurement locations.
  - d. Show sample port locations.
  - e. Show all valves, blowers, combustion air blowers, and all other pertinent information.

7. Include the calibration certification documents for flow and temperature instruments.
8. Show the method of calculating the volume flow rate of the stack.
9. Show influent and effluent temperature measurement locations.
10. Equipment location drawing: The drawing or sketch submitted must show at least the following:
  - a. The site or property map to scale showing property lines, buildings, building dimensions and heights.
  - b. Location and identification of the system on the property.
  - c. Show all residential areas, businesses and schools within a 1000 foot radius of the stack. Indicate the distance and direction to the property line of the nearest residence and all schools if any. If a school is within 1000 feet, please show all schools within a ¼ mile radius. Note: If a school is within a 1000 foot radius, the project will require a 30 day public notice and comment period pursuant to AB3205. Please see the instructions for public noticing.

Submit fee with application: See Rule 301, Schedule 1 for electric motor horsepower.

After authority to construct or to install is granted for any equipment, deviations from the approved plans are not permissible without first securing additional approval for the changes from the Air Pollution Control Officer.

Further information or clarification concerning permits can be obtained by writing or calling 916-874-4800.