

PUGET SOUND CLEAN AIR AGENCY

Additional Notice of Construction Application Requirements for

AIR STRIPPERS

(Soil and Groundwater Remediation)

General

Description of Equipment and its Purpose [*Specify the type of air stripping equipment (soil vent pipes or groundwater stripping tower) and the reason for using it (leaking underground storage tank remediation, spill remediation)*]

Identify which of the following categories the project fits into:

1. New Construction (*New construction also includes existing, unpermitted equipment or processes*)
2. Reconstruction (*Reconstruction means the replacement of components of an existing facility to such an extent that the fixed capital cost of the new components exceeds 50% of the fixed capital cost that would be required to construct a comparable entirely new facility*)
3. Modification (*Modification means any physical change in, or change in the method of operation of, a source, except an increase in the Hours of Operation or production rates (not otherwise prohibited) or the use of an alternative fuel or raw material that the source is approved to use under an Order of Approval or operating permit, that increases the amount of any air contaminant emitted or that results in the emission of any air contaminant not previously emitted*)
4. Amendment to Existing Order of Approval Permit Conditions

Estimated Hours of Operation (hr/day, day/wk, wk/yr) [*Estimate the hours of operation for the new air stripper - not necessarily the entire facility.*]

Estimated Installation Date [*Estimate the date when the new air stripper will be put into service.*]

Estimated Removal Date [*Estimate the date when the new air stripper will be taken out of service.*]

Contaminant Properties

Contaminants to be Stripped [*Specify the chemicals to be vented from the soil or groundwater.*]

Concentration of Each Contaminant (mg/l or ppm) [*Specify the initial (present) chemical concentration of each contaminant.*]

Emissions Estimate (total lb, maximum lb/yr) *[Estimate the total emission of each contaminant emitted during the course of the remediation (the mass of soil or water times the difference in concentration), and the maximum annual emissions.]*

Design *[Most design information is available from the manufacturer or vendor. Submittal of a brochure, scale drawing or process and instrumentation diagram will facilitate the review of the permit application]*

Make & Model *[Specify the manufacturer and model of the groundwater stripping tower - not the serial number. Not required for soil venting]*

Groundwater Flowrate (gpm) *[Specify the groundwater flowrate through the stripping tower. Not required for soil venting.]*

Air Flowrate (cfm) *[Specify the total air flowrate through the stripping tower or soil vent piping.]*

Stack *[Required only for units without additional control equipment. Otherwise, use permit form for control equipment (thermal oxidizer, adsorber).]*

Stack Height (ft) *[Specify the height of the top of the stack above ground level - not above the building or sea level]*

Stack Diameter or Rectangular Cross-Sectional Dimensions (inches) *[Specify the internal dimensions - not the external dimensions]*

Exhaust Flowrate (acfm) *[Specify the airflow in actual cubic feet per minute.]*

Exhaust Temperature (°F) *[Specify the temperature of the exhaust leaving the stack.]*

Distance to Nearest Property Line (ft) *[Specify the distance from the base of the stack to the nearest property line]*

Height, Length and Width of Buildings (ft) *[Specify the approximate dimensions of any buildings that are >40% of the stack height and are located within 5 building heights from the stack.]*

Operation and Maintenance

Method Used to Monitor Emission Rates *[Specify the test method and frequency used to monitor the pollutant emission rate to the atmosphere]*

Describe Preventive Maintenance *[Specify the periodic maintenance recommended by the manufacturer and its frequency]*