

Vapor Monitoring (For Tanks and Piping)

Description of Release Detection:

Vapor Monitoring (VM) uses vapor detection equipment to sample vapors in permanent monitoring wells to detect the presence of product vapors in the soil at an underground storage tank (UST) facility. Detection devices may be permanently installed in wells. Manual detection devices are also acceptable. A site assessment by a trained professional should be conducted before the wells are installed. The site assessment determines the soil type, groundwater depth, direction of groundwater flow, the general geology of the site and verifies there is no contamination present. Vapor monitoring is only allowed for class I liquids as defined in NFPA 30 paragraph 4.3.1 (2012 ed.).

Operating and Maintaining a vapor monitoring system:

- Use the vapor monitoring system to check for leaks at least once every 30 days
- Periodically have a qualified UST contractor service the vapor monitoring system components according to the manufacturer's service instructions.
- At a minimum, annual operability check for proper function of hand-held monitoring devices is required.
- Use the owner's manual for operation and maintenance procedures
- Make sure employees who run, monitor, or maintain the vapor monitoring system know exactly what they have to do and to whom to report problems
- Keep your vapor monitoring wells clearly marked and secured.

Record Keeping:

- Keep results of the vapor monitoring activity for at least one year. At a minimum, a written log must be kept indicating monitoring results at least once every 30 days.
- Keep all records of calibration, maintenance, and repair of release detection equipment for at least one year.
- All facilities conducting monthly groundwater monitoring for release detection must have a valid site assessment. All new site assessments developed after May 26, 2017 must be signed by a P.E., P.G. or equivalent licensed professional with experience in environmental engineering, hydrology or other relevant technical discipline.
- Records of site assessments for groundwater and vapor monitoring must be on file by May 26, 2020.

If the vapor monitoring system result indicates a release may have occurred, call the UST Management Division within 24 hours at (803) 898-0589.