

Kansas Administrative Regulations

Department of Health and Environment

Article 45.—Underground Hydrocarbon Storage Wells and Associated Brine Ponds

28-45-18. Groundwater monitoring.

(a) Each applicant shall submit a groundwater monitoring plan with the facility permit application.

(b) Each permittee shall maintain the groundwater monitoring plan at the facility.

(c) Each permittee shall ensure that each monitoring well meets the following requirements:

(1) Monitoring wells shall be installed around the perimeter of each storage well field and brine pond. Well spacing shall be based on the geology and hydrogeology and number of monitoring wells at the facility and approved by the secretary.

(2) The screen in each shallow monitoring well shall be set at a depth that is inclusive of the seasonal fluctuations of the water table.

(3) The screen in each deep monitoring well shall be set at least 25 feet into bedrock or to a depth based on local geology and hydrogeology at the facility and approved by the secretary.

(d) Each applicant shall submit a quality assurance plan, including techniques for sampling and analysis, with the facility permit application. Each permittee shall maintain the quality assurance plan and shall review and update the plan when necessary.

(e) Each permittee shall submit a groundwater monitoring report on a semiannual basis or as otherwise required by the department. The following requirements shall apply:

(1) Samples shall be analyzed at a state-certified laboratory for chlorides and any other parameter as indicated in the facility permit.

(2) Each report shall include the following information:

(A) Sample results of chloride analysis, including a comparative analysis of current and past results in tabulated and graphical form;

(B) a map showing the sampling locations, groundwater elevation, and groundwater flow; and

(C) a written interpretation and summary of the results.

(f) Each permittee shall monitor monthly for the presence of combustible gas in the headspace of each monitoring well and shall submit the results to the department semiannually.

(g) Any permittee of a facility where chloride concentrations in groundwater are more than 250 milligrams per liter may be required to submit a work plan specifying methods to delineate potential source areas and contaminated areas and to remediate and control migration of the chloride contamination to the department for the secretary's review and consideration for approval.

(h) Any permittee of a facility where combustible gas is detected in a monitoring well may be required to submit a work plan specifying the proposed methods to eliminate any source areas and return combustible gas levels to levels that do not pose a potential threat to the department for the secretary's review and consideration for approval.

(Authorized by and implementing K.S.A. 2022 Supp. 55-1,117; effective, T-28-4-1-03, April 1, 2003; effective Aug. 8, 2003; amended Aug. 9, 2024.)

***** Authenticated Kansas Administrative Regulation *****