

Title 122 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 20 - MONITORING REQUIREMENTS

001 General

001.01 Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

001.02 The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least five (5) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

001.03 The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any plugging and abandonment procedures specified.

001.04 The owner or operator is required to deliver the records upon request by the Director at the conclusion of the five (5) year retention period.

001.05 Records of monitoring information shall include:

001.05A The date, exact place, and time of sampling or measurements;

001.05B The individual(s) who performed the sampling or measurements;

001.05C The date(s) analyses were performed;

001.05D The individual(s) who performed the analyses;

001.05E The analytical techniques or methods used;

001.05F The results of such analyses; and

001.05G A copy of the sampler's Quality Assurance/Quality Control plan, including but not limited to results and information from analyses of field blanks, trip blanks, and duplicate samples.

002 For Class I Injection Wells, monitoring requirements shall, at a minimum, include:

002.01 The analysis of the injected fluids with sufficient frequency to yield representative data of their characteristics; and the result of this analysis shall be transmitted to the Department as directed;

002.02 Continuous recording devices to monitor injection pressure, flow rate and volume, and the pressure on the annulus between the tubing and the long string of casing shall be

installed, monitored, and the information submitted as directed;

002.03 The injection pressure at the wellhead plus the hydrostatic pressure shall not exceed the fracture pressure of the injection zone which shall be determined utilizing a method approved by the Director.

002.04 Mechanical integrity (Chapter 18 of this Title) must be demonstrated at least once every two years during the life of the well;

002.05 The Department will require and approve the type, number and location of wells within the area of review to be used to monitor any migration of fluids into and pressure in the underground sources of drinking water, the parameters to be measured and the frequency of monitoring; and

002.06 The permit may be suspended or revoked at any time by the Department if it determines that the injection well is being operated in violation of law, order, regulation or conditions of the permit. The Department shall have the right to make periodic visits to the installation for the purpose of inspecting the injection system.

003 For Class III Injection Wells, monitoring requirements shall, at a minimum, include:

003.01 The analysis of the physical and chemical characteristics of the injected fluid with sufficient frequency to yield representative data on its characteristics;

003.02 Installation and use of devices to monitor the injection pressure, flow rate and volume as specified by the Department;

003.03 Demonstration of mechanical integrity pursuant to Chapter 18 of this Title at least once every five years during the life of the well;

003.04 Monitoring of fluid level and the parameters chosen to measure water quality in the injection zone as specified by the Department;

003.05 Monitoring of wells adjacent to the injection site to detect any migration from the injection zone into an USDW as specified by the Department; and

003.06 All Class III wells may be monitored on a field or project basis rather than an individual well basis by manifold monitoring. Manifold monitoring may be used in cases of facilities consisting of more than one injection well operating with a common manifold. Separate monitoring systems for each well are not required provided the owner/operator demonstrates that manifold monitoring is comparable to individual well monitoring.

004 For Class V Injection Wells authorized by permit, monitoring requirements shall, at a minimum, include:

004.01 The analysis of the physical and chemical characteristics of the injected fluid with sufficient frequency to yield representative data on its characteristics;

004.02 Installation and use of devices to monitor the injection pressure, flow rate and

volume as specified by the Department;

004.03 Demonstration of mechanical integrity pursuant to Chapter 18 of this Title at least once every five years during the life of the well;

004.04 Monitoring of fluid level and the parameters chosen to measure water quality in the injection zone as specified by the Department; and

004.05 Monitoring of wells adjacent to the injection site to detect any migration from the injection zone into an USDW as specified by the Department.

Enabling Legislation: Neb. Rev. Stat. §§ 81-1504(2)(11)(12)(13)(15)(21) (24); 81-1509(9)(15)

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