

NEBRASKA ADMINISTRATIVE CODE

Title 122 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 2 - CLASSIFICATION OF INJECTION WELLS AND MINERAL PRODUCTION WELLS

Injection wells are classified as follows:

001 Class I. Wells which inject fluids beneath the lowermost formation containing, within one quarter mile of the well bore, an underground source of drinking water. These include, but are not limited to industrial and municipal waste disposal wells.

002 Class II. All Class II wells are regulated by the Nebraska Oil and Gas Commission and are wells which inject:

002.01 Formation fluids produced in connection with conventional oil or natural gas production;

002.02 Fluids to promote enhanced recovery of oil or natural gas; and

002.03 For storage purposes, hydrocarbons which are liquid at standard temperature and pressure.

003 Class III. Mineral production wells, and wells which inject fluids to promote extraction of mineral resources or energy, including, but not limited, to a well designed for:

003.01 Mining of sulfur by the Frasch process;

003.02 Solution mining of mineral resources which include sodium chloride, potash, phosphate, copper, uranium and any other mineral which can be mined by this process;

003.03 In-situ combustion of fossil fuel; fossil fuels include coal, tar sands, oil shale and any other fossil fuel which can be mined by this process; and

003.04 Recovery of geothermal energy to produce electric power; Class III wells do not include wells used in geothermal heating or aquaculture which fall under Class V.

004 Class IV. Wells used by generators of hazardous wastes or of radioactive wastes, by owners or operators of hazardous waste management facilities, or by owners or operators of radioactive waste disposal sites to dispose of hazardous wastes or radioactive wastes into or above an underground source of drinking water.

005 Class V. Injection wells not included in Class I, II, III, or IV. Class V wells include, but are not limited to:

005.01 Air conditioning return flow wells used to return to the supply aquifer the water used for heating or cooling in a heat pump;

005.02 Cesspools or other devices that receive wastes, which have an open bottom and sometimes have perforated sides.

005.03 Cooling water return flow wells used to inject water previously used for cooling;

005.04 Drainage wells used to drain surface fluid, primarily storm runoff, into a subsurface formation;

005.05 Dry wells used for the injection of wastes into a subsurface formation;

005.06 Recharge wells used to replenish the water in an aquifer;

005.07 Saltwater intrusion barrier wells used to inject water into a fresh water aquifer to prevent the intrusion of salt water into the fresh water;

005.08 Sand backfill wells used to inject a mixture of water and sand, mill tailings or other solids into mined out portions of subsurface mines;

005.09 Septic system wells used:

005.09A To inject sanitary waste from a dwelling, at a flow greater than 1,000 gallons per day; or

005.09B For an establishment, business, or community or regional system which generates sanitary waste and has the capacity to serve 20 persons or more; or

005.09C For dwellings, establishments, businesses, or community or regional systems that generate wastes other than sanitary wastes.

005.10 Subsidence control wells (not used for the purpose of oil or natural gas production) used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with the overdraft of fresh water;

005.11 Injection wells associated with the recovery of geothermal energy for heating, aquaculture and production of electric power;

005.12 Wells used for solution mining of conventional mines such as stopes leaching;

005.13 Wells used to inject spent brine into the same formation from which it was withdrawn after extraction of halogens or their salts;

005.14 Injection wells used in experimental technologies;

005.15 Injection wells used for in-situ recovery of lignite, coal, tar sands, and oil shale; and

005.16 Motor vehicle waste disposal wells that receive or have received fluids from motor vehicle repair or maintenance activities.

005.17 Class V wells are classified by the following groups, code numbers, and descriptions:

005.17A DRAINAGE WELLS

5D2	Storm Water Drainage Wells
5D3	Improved Sinkholes
5D4	Industrial Drainage
5G30	Special Drainage

005.17B GEOTHERMAL REINJECTION WELLS

5A5	Electric Power Reinjection Wells
5A6	Direct Heat Reinjection Wells
5A7	Heat Pump/Air Conditioning Return Flow Wells (open loop)
5A8	Ground Water Aquaculture Return Flow Wells

005.17C DOMESTIC WASTEWATER DISPOSAL WELLS

- 5W11 Septic System (undifferentiated disposal method), with a capacity for greater than 20 persons
- 5W31 Septic System (well disposal method), with a capacity for greater than 20 persons
- 5W32 Septic System (drainfield disposal method), with a capacity for greater than 20 persons
- 5W12 Domestic Wastewater Treatment Plant Effluent Disposal Wells

005.17D MINERAL AND FOSSIL FUEL RECOVERY RELATED WELLS

- 5X13 Mining, sand or other backfill wells
- 5X14 Solution Mining Wells
- 5X15 In-situ Fossil Fuel Recovery Wells
- 5X16 Spent-Brine Return Flow Wells, after extraction of halogens

005.17E OIL FIELD PRODUCTION WASTE DISPOSAL WELLS

- 5X17 Air Scrubbed Waste Disposal Wells
- 5X18 Water Softener Regeneration Brine Disposal Wells

005.17F INDUSTRIAL/COMMERCIAL/UTILITY DISPOSAL WELLS

- 5A19 Cooling Water Return Flow Wells
- 5W20 Industrial Process Water and Waste Disposal

005.17G RECHARGE WELLS

- 5R21 Aquifer Recharge Wells
- 5B22 Saline Water Intrusion Barrier Wells
- 5S23 Subsidence Control Wells

005.17H MISCELLANEOUS WELLS

- 5X25 Experimental Technology Wells
- 5X26 Aquifer Remediation Related Wells

5X27 Other Wells (well type/purpose and injection fluid must be specified)

005.171 PROHIBITED INJECTION WELLS

5F1 Agricultural Drainage Wells
5W9 Untreated Sewage Waste Disposal Wells
5W10 Cesspools
5N24 Radioactive Waste Disposal Wells
5X28 Motor Vehicle Waste Disposal Wells
5X29 Abandoned Drinking Water Wells used for Disposal of Waste

Enabling Legislation: Neb. Rev. Stat. §§ 81-1504(2)(13); 81-1505(1)(9)

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