



**NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
APPLICATION FOR A CLASS V
INJECTION WELL AUTHORIZATION**

FOR	APPLICATION NUMBER		
AGENCY	NE		
USE	DATE RECEIVED		
ONLY			
	YEAR	MO.	DAY

This application covers ONLY Class V (five) injection wells that meet the requirements of Title 122, Chapter 6. Please answer **EVERY** item on this application to the best of your knowledge. **An incomplete application may be returned.** If you have questions while filling out this application please refer to Title 122, Chapter 10 or call **(402) 471-4290** and someone will assist you.

1. What type of Class V well will be utilized? (Refer to list below or Title 122, Chapter 2, Section 005.17)

DRAINAGE		GEOTHERMAL REINJECTION	
5D2	Storm Water Drainage	5A5	Electric Power Reinjection
5D3	Improved Sinkholes	5A6	Direct Heat Reinjection
5D4	Industrial Drainage	5A7	Heat Pump/AC Return Flow (open loop)
5G30	Special Drainage	5A8	Ground Water Aquaculture Return Flow
DOMESTIC WASTEWATER DISPOSAL		MINERAL & FOSSIL FUEL RECOVERY RELATED	
5W11	Septic System (undifferentiated disposal)	5X13	Mining, sand & other backfill
5W31	Septic System (well disposal)	5X14	Solution Mining
5W32	Septic System (drainfield disposal)	5X15	In-situ Fossil Fuel Recovery
5W12	Wastewater Treatment Plant Effluent Disposal	5X16	Spent-Brine Return Flow, after halogen extr.
OIL FIELD PRODUCTION WASTE DISPOSAL		INDUSTRIAL/COMMERCIAL/UTILITY DISPOSAL	
5X17	Air Scrubbed Waste Disposal	5A19	Cooling Water Return Flow
5X18	Water Softener Regeneration Brine Disposal	5W20	Industrial Process Water & Waste Disposal
RECHARGE		MISCELLANEOUS	
5R21	Aquifer Recharge	5X25	Experimental Technology
5B22	Saline Water Intrusion Barrier	5X26	Aquifer Remediation Related
5S23	Subsidence Control	5X27	Other (specify purpose & injection fluid)

2. Name of Facility:

Operator's Name:

Street Address:

Telephone Number:

Ownership Status: (i.e. President, Partner, Stockholder)

Entity Status: (i.e. Federal, State, Private, Other)

	City/ Zip:	
	County:	

3. Owner's Name:			
	Mailing Address:	City/ Zip:	
Telephone Number:		County:	
Ownership Status:	(i.e. President, Partner, Stockholder)		
Entity Status:	(i.e. Federal, State, Private, Other)		
Owner's Signature:			

4. **Legal Location of the Injection well including county and GPS Coordinates of injection well:** County:

(i.e. NW ¼ of the SE ¼ of Section 27, Township 14 North, Range 1 East; GPS example: 42.1112, 98.7895)

LEGAL:
GPS (Decimal Lat/Long):

5. **Give a detailed description of the fluid to be injected, attach laboratory data if available:**

6. **What is the volume of fluid to be injected in a specific time period? (i.e. 20 gallons per hour)**

7. **Describe the nature of the business or activity that generates the waste: (i.e. Auto Repair Shop)**

8. **What is the status of the injection well? (i.e. in use, proposed, under construction)**

9. **Attach a scaled map of the entire property on which the injection is proposed.** The map should include but not be limited to the following items:

- All other injection wells (i.e. septic systems, heat pump returns).
- All major structures (i.e. buildings, streets, property lines).
- All underground utilities.
- All water wells (i.e. irrigation, drinking, monitoring).

10. **Attach a scaled map or aerial photograph locating all water wells within a ½ mile radius of the proposed injection well.**

11. **Attach design or construction details of the proposed injection well as outlined in Title 122, Chapter 17, Section 005.** All well designs should be submitted by a Professional Engineer licensed in the State of Nebraska.

12. Complete one of the following tables for setback distances of the proposed injection well. Please read the description at the beginning of each table to ensure the proper table is being completed.

12a. A Domestic Wastewater Disposal Well (5W11, 5W31, 5W32, 5W12) for a septic system or wastewater treatment plant effluent. These wells must meet the 4-foot separation from ground water.

Receptor	Minimum Setback in Feet		Actual Distance	
	Yours	Neighbors	Yours	Neighbors
Surface Water	50			
Domestic Water Well	100			
Community Water Well	1000			
All Other Water Wells	100			
Water Line (Pressure-Main)	25			
Water Line Pressure-Service Connection	25			
Water Line (Suction)	100			
Property Lines	5			
Foundations used for living quarters	Yours	Neighbors	Yours	Neighbors
Full basements or foundations below septic system	30	40		
Non-basement foundations higher than septic system	20	30		
Slab on grade not used as living quarters	10	20		

12b. An injection well constructed above the ground water table but not listed in the Domestic Wastewater Disposal category. These wells must meet the 4-foot separation from ground water and cannot be greater than 20 feet deep.

Receptor	Minimum Setback in Feet		Actual Distance	
	Yours	Neighbors	Yours	Neighbors
Domestic Water Well	100			
Community Water Well	1000			
Non-Community Water Well	500			
All Other Water Wells	100			
Sewer Lines	25			
Pressure Water Lines	25			
Suction Water Lines	100			
Property Lines	5			
Basements/Footings	30			
Domestic Wastewater Disposal Wells	100			
Other injection wells of this type	25			
Other injection wells that fall into the next table	25			
Septic Tanks	50			
Surface Water	50			

12c. An injection well constructed into or through a ground water aquifer.

Receptor	Minimum Setback in Feet	Actual Distance
Domestic Water Well	100	
Community Water Well	1000	
Non-Community Water Well	500	
All Other Water Wells	25	
Sewer Lines	25	
Pressure Water Lines	25	
Suction Water Lines	50	
Property Lines	5	
Basements/Footings	10	
Domestic Wastewater Disposal Wells	100	
Other injection wells of this type	25	
Other injection wells that fall into the next table	25	
Septic Tanks	50	
Surface Water	50	

13. What is the depth to ground water (in feet) at the property?

14. How was the depth to ground water obtained? (i.e. measured in well, drilling logs)

15. Describe the geologic material or formation into which the injection is planned.

16. Name of person completing this form:

Telephone number:

Signature:

IMPORTANT CLASS V WELL CONSTRUCTION FACTS

- All Domestic Wastewater Disposal Wells (Title 122, Chapter 2, Section 005.17C), including septic systems must be constructed in accordance with Title 124 – Rules and Regulations for the Design, Operation, and Maintenance of On-Site Wastewater Treatment Systems.
- All Class V wells constructed above the ground water table must maintain a separation distance from the deepest point of the well to the surface of the ground water of 4 feet. This includes septic systems.
- No Class V well constructed above the ground water table shall exceed 20 feet in depth.
- Well casing used for all Class V wells, except Domestic Wastewater Disposal Wells, shall be pressure rated a minimum of 160 psi. The formula for calculating the minimum pressure rating is located in Title 122, Chapter 17, Section 005.04C1.
- Injection wells cannot inject into more than one aquifer.
- If ground water is removed from an aquifer, it must be injected back into that same aquifer (i.e. open loop heat pump wells, cooling water wells, remediation wells).
- Cement/bentonite grout is the only allowed media to fill the annulus of an injection well.
- There are 3 separate Tables in Title 122 listing the different setback distances for each type of injection well. All of the Tables can be found in Chapter 17, Section 005.

Return Completed Application to:

**Nebraska Department of Environmental Quality
Ground Water Unit/UIC Program
P.O. Box 98922
Lincoln, Nebraska 68509-8922**