

# Instructions for TCEQ Class V Injection Well Inventory/Authorization Form

Submit an original and one copy of the inventory /authorization form to the Radioactive Materials Division, MC233, P.O. Box 13087, Austin, Texas 78711-3087.

As stated in 30 Texas Administrative Code 331.21, "All geoscientific information submitted to the agency under this chapter shall be prepared by, or under the supervision of, a licensed professional geoscientist or a licensed professional engineer and shall be signed, sealed, and dated by the licensed professional geoscientist or licensed professional engineer in accordance with the Texas Geoscience Practice Act and the Texas Engineering Practice Act." Any application submitted shall be signed, sealed and dated on the cover letter. In addition to the inventory/authorization form the TCEQ requires that a Core Data Form (Form 10400) be submitted on all incoming applications. For more information regarding the Core Data Form, call (512) 239-1575 or go to the TCEQ Web site at:

[http://www.tceq.state.tx.us/permitting/central\\_registry/guidance.html](http://www.tceq.state.tx.us/permitting/central_registry/guidance.html)

If you are applying for two or more Class V injection wells that are of similar construction at the same facility you may use one form.

If you are applying for Class V injection wells of different construction or at different facilities then use one form per construction type and/or facility.

Use the Class V injection well designation key provided at the end of the application to determine the type of injection well for which the application is being submitted and indicate this on the top of the application form (Reg. No. 5\_\_\_\_).

Complete Section I for all notifications and Sections II through V as appropriate.

## **Please Read**

The purpose of this form is to serve as the means for the Class V injection well owner or operator to provide notice to the UIC Program of intent to construct, operate, and/or convert a well in accordance with the inventory and approval requirements of 30 Texas Administrative Code 331.10. No Class V injection well may be constructed operated and/or converted without prior approval from the executive director.

**Texas Commission on Environmental Quality**

**Class V Injection Well  
Inventory/ Authorization Form  
For TCEQ Use Only**

**Submit To:**

TCEQ  
UIC Permits Team  
Radioactive Materials Division  
MC233  
PO Box 13087  
Austin, Texas 78711-3087  
512/239-6466

**Reg. No.**

\_\_\_\_\_  
Date Received \_\_\_\_\_  
Date Authorized \_\_\_\_\_

**Reg. No. 5** \_\_\_\_\_

**Section I General Information  
Provide the information in items 1 through 8**

1. TCEQ Program Area (PST, VCP, IHW, etc.), Contact Name and Phone Number:  
\_\_\_\_\_
2. Agent/Consultant, Contact Name, Address (Street, City, State, and Zip Code), and Phone Number:  
\_\_\_\_\_
3. \_\_\_\_\_ Owner \_\_\_\_\_ Operator  
Owner/Operator, Contact Name, Address (Street, City, State, and Zip Code), and Phone Number: \_\_\_\_\_
4. Facility Name, Address (Street, City, County, State, and Zip Code) or location description (if no address is available) and Facility Contact Person and Phone Number: \_\_\_\_\_
5. Latitude and Longitude (degrees-minutes-seconds) and method of determination (GPS, TOPO, etc.): \_\_\_\_\_

6. **Type of Well Construction (Vertical Injection, Subsurface Fluid Distribution System, Infiltration Gallery, Temporary Injection Points, etc.) and Number of Injection Wells:** \_\_\_\_\_
7. **Detailed Description regarding purpose of Injection System. Attach a Site Map as Attachment B (Attach the Approved Remediation Plan [if appropriate]):**  
\_\_\_\_\_
8. **Water Well Driller/Installer, Address (Street, City, State, and Zip Code), Phone Number, and License Number:** \_\_\_\_\_

**Section II Proposed Down Hole Design**

**Attach a diagram signed and sealed by a licensed engineer as Attachment C**

Name of String	Size	Setting Depth	Sacks Cement/Grout - Slurry Volume - Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
9. Casing					
10. Tubing					
11. Screen					

**Section III Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery**

**Attach a diagram signed and sealed by a licensed engineer as Attachment D**

12. System(s) Dimensions: \_\_\_\_\_

13. System(s) Construction: \_\_\_\_\_

**Section IV Site Hydrogeological and Injection Zone Data  
Provide the information in items 14 through 31**

14. Name of Contaminated Aquifer: \_\_\_\_\_

15. Receiving Formation Name of Injection Zone: \_\_\_\_\_

16. Well/Trench Total Depth: \_\_\_\_\_

17. Surface Elevation: \_\_\_\_\_

18. Depth to Ground Water: \_\_\_\_\_

19. Injection Zone Depth : \_\_\_\_\_

20. Injection Zone vertically isolated geologically? Y/N Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: \_\_\_\_\_

Thickness: \_\_\_\_\_

21. Provide a list of contaminants and the levels (ppm) in contaminated aquifer  
Attach as Attachment E: \_\_\_\_\_

22. Horizontal and Vertical extent of contamination and injection plume  
Attach as Attachment F: \_\_\_\_\_

23. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.  
Attach as Attachment G: \_\_\_\_\_

- 24. Injection Fluid Chemistry in PPM at point of injection  
Attach as Attachment H:
- 25. Lowest Known Depth of Ground Water with < 10,000 PPM TDS:  
\_\_\_\_\_
- 26. Maximum injection Rate/Volume/Pressure: \_\_\_\_\_
- 27. Water wells within 1/4 mile radius (attach map as Attachment I):  
\_\_\_\_\_
- 28. Injection wells within 1/4 mile radius (attach map as Attachment I):  
\_\_\_\_\_
- 29. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment I): \_\_\_\_\_
- 30. Sampling frequency: \_\_\_\_\_
- 31. Known hazardous components in injection fluid: \_\_\_\_\_

**Section V Site History**  
**Provide the information in items 32 through 35**

- 32. Type of Facility: \_\_\_\_\_
- 33. Contamination Dates: \_\_\_\_\_
- 34. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations:  
\_\_\_\_\_  
Attach as attachment J: \_\_\_\_\_
- 35. Previous Remediation: \_\_\_\_\_

Attach results of any previous remediation as attachment K:

<<**NOTE**>> Authorization Form should be completed in detail and authorization given by TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

**Class V Injection Well Designations**

- 5A07..... Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
- 5A19.....Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
- 5B22.....Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
- 5D02.....Storm Water Drainage (IW designed for the disposal of rain water)
- 5D04.....Industrial Stormwater Drainage Wells (IW designed for the disposal

of rain water associated with industrial facilities)

**Class V Injection Well Designations (continued)**

- 5F01.....Agricultural Drainage (IW that receive agricultural runoff)
- 5R21.....Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
- 5S23.....Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
- 5W09..... Untreated Sewage
- 5W10.....Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
- 5W11.....Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
- 5W12.....WTP disposal
- 5W20.....Industrial Process Waste Disposal Wells
- 5W31.....Septic System (Well Disposal method)
- 5W32.....Septic System Drainfield Disposal
- 5X13.....Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
- 5X25.....Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
- 5X26.....Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
- 5X27.....Other Wells
- 5X28.....Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
- 5X29.....Abandoned Drinking Water Wells (waste disposal)