

US EPA ARCHIVE DOCUMENT

## **MONITORING AND REPORTING GUIDANCE FOR CLASS II-D AND II-R INJECTION WELLS UNDERGROUND INJECTION CONTROL PROGRAM**

In accordance with federal regulations 40 CFR Section 144.28 for rule-authorized wells and 40 CFR Section 146.23 for permitted injection wells, the owner or operator of a Class II-D or Class II-R injection well is required to submit an annual report summarizing the results of all monitoring activities. In addition, owners or operators of permitted injection wells are required to submit a fluid analysis of the injectate. **These reports need to be submitted if the well is active, shut-in, or temporarily abandoned, and the current status of the well must be indicated on the report.**

This guidance was developed to clarify these regulations and assist the owner/operator in complying with federal regulations. Furthermore, it establishes the correct form to be used, the date when the annual report shall be submitted, and the address where the report shall be sent. The guidance is divided into two sections. Section 1 covers rule-authorized injection wells. Section 2 covers permitted injection wells. This report does not discuss the mechanical integrity requirement for Class II injection wells.

### **Section 1**

#### Monitoring Requirements for Rule-Authorized Class II-D & II-R Injection Wells

Federal Regulation 40 CFR 144.28(g) addresses the monitoring requirements for Class II rule-authorized injection wells. Owners or operators of injection wells are required to observe the injection pressure, flow rate, and cumulative volume with at least the following frequency:

- (A) Weekly for produced fluid disposal operations; and
- (B) Monthly for enhanced recovery operations.

The owner or operator shall record one observation of injection pressure, flow rate, and cumulative volume at reasonable intervals of no more than thirty (30) days. The owner or operator of enhanced recovery wells may monitor them by manifold monitoring on a field or project basis if such facilities consist of more than one injection well, operate with a common manifold, and provided the owner or operator demonstrates that manifold monitoring is comparable to individual well monitoring. The owner or operator of rule-authorized injection wells is required to monitor the nature of the injected fluids with sufficient frequency to yield data representative of their characteristics. For EPA administered programs in Kentucky, Tennessee and Florida, this frequency shall be at least once within the first year of the authorization and each time thereafter when changes are made to the fluid.

## Reporting Requirements for Rule-Authorized Class II Injection Wells

Federal regulation 40 CFR 144.28(h) addresses the reporting requirement for rule-authorized injection wells. For Class II wells, an annual report is required summarizing the results of all monitoring. The report shall summarize the weekly/monthly records of the injection well for injection pressure, flow rate, cumulative volume, and any major changes in characteristics or sources of injection fluids. **These reports need to be submitted if the well is active, shut-in, or temporarily abandoned, and the current status of the well must be indicated on the report.** The owner or operator shall submit the report for each active, shut-in, or temporarily abandoned injection well on EPA Form 7520-11, Annual Report Form. **The first Annual Monitoring Report shall cover the period from the effective date of rule-authorization through December 31 of that year. Subsequently, the Annual Monitoring Report shall cover the period from January 1 through December 31, and shall be submitted by January 30th of each year thereafter. All reports shall indicate the current status of the injection well, i.e., active, shut-in, temporarily abandoned, or plugged.**

Copies of the Annual Monitoring Report shall be submitted to the address at the end of this document.

## **Section 2**

### Monitoring Requirements for Permitted Class II-D and II-R Injection Wells

Federal Regulation 40 CFR 146.23(b) addresses the monitoring requirements for Class II permitted injection wells. Owners and operators of permitted injection wells are required to record the injection pressure, flow rate, and cumulative volume of the injection fluid as outlined in the terms of their permit. At a minimum monitoring frequencies shall be:

- (A) Weekly for produced fluid disposal operations; and
- (B) Monthly for enhanced recovery operations.

The owner or operator shall record one observation of injection pressure, flow rate, and cumulative volume at reasonable intervals no greater than thirty (30) days. Region 4 allows the owner or operator of enhanced recovery wells to monitor them by manifold monitoring on a field or project basis if such facilities consist of more than one injection well, operate with a common manifold, and provide the owner or operator demonstrates that the manifold monitoring is comparable to individual well monitoring.

The owner or operator of a permitted injection well is required to monitor the nature of injection fluids at time intervals sufficiently frequent to yield data representative of their characteristics. For EPA administered programs in Kentucky, Tennessee, and Florida, this frequency shall be at least once each year or whenever changes are made to the fluid. At a minimum, the injection fluid analysis shall include pH, specific gravity, and total dissolved solids.

## Reporting Requirements for Permitted Class II Injection Wells

Federal regulation 40 CFR 146.23(c) addresses the reporting requirement for permitted Class II injection wells. For Class II wells, an annual report summarizing the results of all monitoring is required. The report shall summarize the weekly/monthly records of the injection well as required in the terms of the permit. At a minimum the report shall summarize the weekly/monthly records of the injection well for injection pressure, flow rate, cumulative volume, and any major changes in characteristics or sources of injection fluids. **This report needs to be submitted if the well is active, shut-in, or temporarily abandoned, and the current status of the well must be indicated on the report.** The owner or operator shall submit the report for each active, shut-in, or temporarily abandoned injection well on EPA Form 7520-11, Annual Report Form. **The first Annual Monitoring Report shall cover the period from the effective date of the permit through December 31 of that year. Subsequently, the Annual Monitoring Report shall cover the period from January 1 through December 31, and shall be submitted by January 30th of each year thereafter. All reports shall indicate the current status of the injection well, i.e., active, shut-in, temporarily abandoned, or plugged.**

Copies of all Annual Monitoring Reports shall be submitted to the following address:

Annual Monitoring Report  
U.S. Environmental Protection Agency - Region 4  
Water Protection Division  
Safe Drinking Water Branch  
Ground Water & SDWA Enforcement Section  
61 Forsyth Street, SW  
Atlanta, Georgia 30303-8960