

## Instructions for Underground Injection Control Class V Closure Plans

To ensure Underground Injection Control (UIC) Class V well closure in an environmentally sound manner, the EPA requires the following information to be included in your Class V well closure plan (Please note that, for sanitary systems where a connection to the sewer is not possible, the sanitary system may remain in use as long as the chemical contamination is cleaned out and the chemical discharge is ceased.):

- A. A schematic diagram displaying the injection well system; the diagram must include all drains, piping, processing units such as oil/water separators or septic tanks, and final discharge mechanisms such as drywells, leach fields or open underground pipe.
- B. A description of all fluids which enter the Class V well.
- C. A statement indicating that the connection between all drains of concern and the injection well (cesspool, drywell, open pipe or leachfield), will be verified.
- D. A description of plug emplacements (if applicable).
- E. A statement indicating that all contaminated liquids, sludges, and contaminated soil will be removed from in and around the Class V injection well until visibly clean soil is reached, or structural integrity of the excavation or buildings or other significant structures near the excavation, may be compromised.
- F. A description of on-site storage while awaiting proper disposal, of liquids, sludges and contaminated soil removed from the Class V well system.
- G. A statement indicating that all wastes will be characterized for disposal purposes, in accordance with Federal, State, and local regulations.
- H. An end-point sample shall be collected from the cleaned out Class V well, below the point of discharge. The end-point sample shall be analyzed according to well use and injectate constituents. A statement must included indicating what analytical methods will be used. Recommended EPA methods are included below.
  - For large capacity cesspool wells (20 or more people per day), which receive only sanitary waste, an end-point sample and analysis is not required.
  - For motor vehicle waste disposal wells, the end-point sample shall be analyzed for volatile organic compounds (EPA Test Method SW-846 8260), semi-volatile organic compounds (EPA Test Method SW-846 8270 base/neutral extraction), and arsenic, cadmium, chromium, and lead by a total metals analysis.

- **For funeral home waste disposal wells**, the end-point sample shall be analyzed for volatile organic compounds (EPA Test Method SW-846 8260); phenol, 2-methylphenol and 4-methylphenol (EPA Test Method SW-846 8270 base/neutral extraction, or EPA Test Method SW-846 8041); and formaldehyde (EPA Test Method SW-846 8315).
  - For industrial discharge wells, the end-point sample shall be analyzed for contaminants present in the injected discharge (analyses may include volatile organic compounds - EPA Test Method SW-846 8260; semi-volatile organic compounds - EPA Test Method SW-846 8270 base/neutral extraction, and metals, herbicides or pesticides).
  - **Leachfield Sampling:** Pull one sample taken 4 feet under the center point of the leachfield for compounds in soil, and water if encountered. For volatile organic compounds (EPA Test Method SW-846 8260), semi-volatile organic compounds (EPA Test Method SW-846 8270 base/neutral extraction), and arsenic, cadmium, chromium, and lead by a total metals analysis
- I. Clean inert soil or sand will be used as backfill.
- J. A statement must be included indicating that a final report outlining the closure procedures, and including all initial and end-point analyses results and waste disposal manifests shall be submitted to:

Dennis McChesney, Chief  
Ground Water Compliance Section  
2DECA-WCB, 20<sup>th</sup> Floor  
U.S. Environmental Protection Agency  
290 Broadway  
New York, NY 10007-1866

The Class V well work plan must be submitted to EPA and approved by EPA prior to initiation of well initial sampling and/or clean-out activities. You shall be notified that EPA has approved your work plan or that you will be required to modify your work plan to meet the requirements listed above.

In order to receive a letter from the EPA documenting proper initial sampling and/or clean-out of your wells, you must submit a final closure report outlining the closure procedures, and including all sampling results and waste disposal manifests.