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Underground Injection Well/ Sanitary System Closure

SERVICES INCLUDE:

Soil Boring and Sampling Programs

Groundwater Monitoring and Contaminant Plume Investigations

Geophysical and Dye Testing

Development and Implementation of UIW and Sanitary System Closure Programs

Contractor Management and Oversight

Negotiations with Regulatory Agency Personnel

Development of Stormwater Management Plans and BMPs



Storm drains, dry wells, leaching pools and on-site sanitary disposal systems have historically been a source of contamination to the nation's drinking water supply due to the improper disposal of chemicals and wastes. For example, it was once common for gasoline service stations and larger vehicle maintenance facilities to have floor drains in the service bays where oils, solvents and other petroleum products often flowed and eventually discharged to the soil and underlying groundwater resources.

Recognizing the threat to our underground drinking water supplies, the United States Environmental Protection Agency (USEPA) amended the Safe Drinking Water Act in 1986 to address these sources of contamination as part of the USEPA's Underground Injection Well Closure (UIC) Program. Under the UIC Program, the USEPA requires the inventory of all underground injections wells (UIWs) and will not allow the disposal of chemicals and non-sanitary wastes without a permit. In the last 30-plus years, the USEPA and state and local regulatory authorities have required the cleanup and removal of thousands of UIWs under this program.

D&B has assisted many clients throughout the New York metropolitan area with the cleanup and closure of UIWs, including sanitary systems, leaching pools, floor drains and storm drains. Our experience has included completing inventories of UIWs for clients with numerous facilities and the development of databases to track and monitor the UIWs. In cases where a system had to be remediated, D&B conducted investigations that involved a chemical analysis of liquid samples and sludge present in the subsurface structures.

In addition, D&B has completed detailed soil and groundwater investigations in and around UIWs of industrial facilities to assess the impacts of historic and long-term discharges. D&B has developed cost-effective cleanup programs for UIWs that have been approved by the regulatory agency with little to no comment. D&B oversees any required cleanup remediation and assists clients with the final UIC closure, including developing a UIC closure report and meeting with the regulatory agency responsible for implementing the USEPA's program.

D&B also has experience conducting facility-wide inspections and completing USEPA inventory forms; conducting drainage discharge studies to identify wells regulated pursuant to the UIC program; preparing UIC closure plans in accordance with federal and local requirements; and closure or rehabilitation and conversion of the structures for an authorized use. These activities have been conducted at numerous vehicle maintenance facilities, large industrial facilities, and higher education campuses.

Because of the reliance on the underlying aquifer system as the only source of drinking water on Long Island, D&B has completed numerous UIW and sanitary system closures throughout Nassau and Suffolk Counties. Through this experience, D&B has developed an excellent working relationship with the various health department officials responsible for regulating this work, as well as an in-depth understanding of both Nassau and Suffolk County's protocols and requirements specific to UIWs.

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