

ENGLISH

Lyondell Chemical Company (CN600344402) operates the Channelview Plant (RN100633650), which manufactures various synthetic organic chemicals. The facility is located at 2502 Sheldon Road, Channelview, Harris County, Texas 77530. This application is to renew the currently active Class I Injection Well permits for WDW148 and WDW162, and to renew the permit authorization for well WDW438, which has not yet been drilled.

The Channelview Plant generates nonhazardous and hazardous wastes that are disposed of on-site via injection wells rather than being transported offsite. Examples of wastes permitted to be injected in the wells include Propylene oxide/styrene monomer waste caustic, Olefins waste caustic, Flex waste caustic, Polyols, Barium and Chromium from processes wastes, groundwater with ethylene dichloride, Glycolic wastes, and contaminated surface and groundwater, and wastewater from the treatment plant.

The existing injection wells (WDW148 and WDW162) are designed and installed according to Texas agency guidance and regulations. The annual output of waste to be injected will not exceed 367,920,000 gallons per year (per facility – *i.e. cumulative for all wells*). The pending injection well (WDW148), if drilled, will be installed according to agency guidance and regulations as well. The injection wells are equipped with inner and outer casings made with corrosion-resistant materials, an annulus space maintained under constant pressure, and sophisticated monitoring systems. Annual mechanical integrity tests are conducted to ensure that no failure of the protective casing or other equipment has occurred. The injected waste streams are monitored for flow, pH, specific gravity, and constituents. Finally, the injection wells are fitted with automatic alarms and shutdowns, that can cease operations immediately, if needed.