

Plain Language Summary for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Meadowhill Regional Municipal Utility District (CN60078811) operates Meadowhill Regional Wastewater Treatment Plant, RN102683471, a complete mix activated sludge treatment facility. The facility is located 3530 Farm-to-Market Road, in Spring, Harris County, Texas 77388.

This application is a renewal to discharge 2,400,000 gallons per day of treated domestic wastewater from the plant site via a 24" pipe; thence into a 30" discharge pipe that transports treated effluent to Harris County Flood Control Ditch No. K-124-02-03. Sludge is then disposed by a contract hauler.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated after being pumped from two (2) onsite lift stations to the headworks which consists of a manually cleaned bar screen. From the headworks, flow continues through a pre-mix basin and a rapid mix basin; thence into three (3) 55-ft diameter circular clarifiers (121,160 CFU total). The clarifier underflow is returned to the headworks or wasted into a 22-ft diameter gravity thickener with a total volume of 4,940 cubic feet and three (3) aerobic digester basins having a total volume of 13,369- cubic feet; thence through a dichlorination basin. The flow then exits the plant through a 24" pipe into a 30" discharge pipe into Harris County Flood Control Ditch No. K-124-02-03. Sludge is then disposed of by contract hauler.

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Water Quality Applications Team