

Planning Unit Needs Assessment – Clean Water



Gateway Area Development District

AREA DEVELOPMENT DISTRICT NEEDS

Primary Need: Repair and Replace Existing Infrastructure

Secondary Need: Extend Services to Unserved Areas

There are nine wastewater systems that serve Gateway Area Development District. Each wastewater utility in the Gateway ADD was provided with the opportunity to identify the needs for the system. The needs of every system were considered in the determination of the Gateway Area Development District's primary and secondary Clean Water needs.

The District's primary Clean Water need is Repair/Replace Existing Infrastructure. This was the primary need of every planning unit in the Gateway ADD with the exception of the Menifee County Planning Unit. The wastewater systems in the region have identified this as a Clean Water need for a variety of reasons. Some areas of the region's sewer infrastructure have been damaged as a result of severe weather events, some portions of the aging infrastructure need to be replaced to prevent pipe bursts, and other portions need to replace portions of the existing infrastructure need to be replaced because the current lines, lift stations, etc. are at/near capacity.

Extend Services to Unserved Areas is the secondary Clean Water need in the Gateway Area Development District. This was identified as the secondary need in three of the planning units and mentioned as an additional need in a fourth planning unit. While urbanized areas and the larger communities in the Gateway Area Development District have sewer infrastructure, there are large portions of the region that do not. Over 60% of the region's population is not served by a wastewater system.

Additional needs that were identified for the region are Economic Stimulation for areas that cannot currently support potential industrial development. New Collector Sewer and Appurtenances and Sanitary Sewer Overflow Correction were also identified by some of the planning units and individual systems as Clean Water needs in the District.

Discussion and Determination of Planning Units

The Gateway Area Development District is divided into five planning units which are: Bath County, Menifee County, Montgomery County, Morgan County, and Rowan County. These planning units follow the political county boundaries.

There are three wastewater systems in Bath County. Two of the systems in the Bath County Planning Unit are municipalities (City of Owingsville Water and Sewer and City of Sharpsburg Sewer) and the other is a sanitation district (Bath County Sanitation District). The systems in the Bath County Planning Unit have combined connection count of 939 total connections (residential, commercial, industrial, etc.).

The Menifee County Planning Unit has two systems; one municipality (City of Frenchburg Water and Sewer) and one sanitation district (Menifee County Sanitation District #1). The systems in the Menifee County Planning Unit have combined connection count of 368 total connections (residential, commercial, industrial, etc.).

The Montgomery County Planning Unit also has two systems; one municipality (Mt. Sterling Water and Sewer) and one sanitation district (Montgomery County Sanitation District #2). The systems in the

Montgomery County Planning Unit have combined connection count of 5,652 total connections (residential, commercial, industrial, etc.).

The Morgan and Rowan County Planning Units each have one municipal wastewater system (Morgan County - City of West Liberty Water and Sewer; Rowan County - Morehead Utility Plant Board). Morgan County's total connection count is 566 (residential, commercial, industrial, etc.). Rowan County's total connection count is 5,181 (residential, commercial, industrial, etc.)

BATH COUNTY PLANNING UNIT NEEDS

Primary Need: Repair and Replace Existing Infrastructure

Secondary Need: Extend Services to Unserved Areas

The Bath County Planning Unit consists of three wastewater utilities which are: Bath County Sanitation District, City of Owingsville Water & Sewer, and City of Sharpsburg Wastewater System. Each system was provided an opportunity to identify their primary and secondary Clean Water needs. The primary need for the Bath County Planning Unit is Repair/Replace Infrastructure, as this need was identified by the three wastewater systems within the planning unit. The secondary need for the planning unit is Extend Services to Unserved Areas, which was identified by two of the three wastewater systems.

There are several projects that are related to the primary need, Repair/Replace Existing Infrastructure, in the planning unit. Bath County Sanitation District's Preston Sewer Project Phase II (SX21011018) proposes to replace faulty valves in the existing system, install a back flow valve, and to replace deteriorating riser lids on individual tanks. City of Owingsville Water & Sewer has two projects to repair/replace their infrastructure such as the Lagoon System Cleaning Project at the wastewater treatment plant (SX21011002) and the Slate Avenue Pipe Bursting Project which will replace over 3,000 LF of old clay tile pipeline. The City of Sharpsburg's wastewater system has also repaired/replaced a selection of the existing lift stations within the system.

Each of the wastewater systems in the Bath County Planning Unit, have a project(s) that address the secondary need, Extend Services to Unserved Areas. Bath County Sanitation District's Preston Sewer Project Phase II (SX21011018) also proposes to extend sewer lines to the Meadowbrook subdivision on Blevins Valley Road in Preston to serve approximately 50 homes. The City of Owingsville has three extension projects which are: Wyoming Road Sewer Line Extension to serve 20 homes, KY 36 North Sewer Line Extension to serve 12 homes, and Sewer Extension to Remaining Unserved in City Limits to serve 5 homes. The City of Sharpsburg also has an extension project, the Oaklawn Subdivision Sewer Line Extension Project will serve 37 homes.

Other needs identified by the systems in this planning unit include improving efficiency within the system to reduce operation costs and Economic Stimulation. Some areas within the unit could potentially be used for development; however, the current wastewater system does not extend to those areas (Sharpsburg).

MENIFEE COUNTY PLANNING UNIT NEEDS

Primary Need: Sanitary Sewer Overflow Correction

Secondary Need: Extend Services to Unserved Areas

The Menifee County Planning Unit consists of two wastewater utilities which are: City of Frenchburg Water and Sewer and Menifee County Sanitation District #1. Each system was provided an opportunity to identify their primary and secondary Clean Water needs. The primary need for the Menifee County Planning Unit is Sanitary Sewer Overflow Correction, which was identified by both wastewater utilities

in the planning unit as a need. The secondary need for the planning unit is Extend Services to Unserved Areas, which was identified by one of the two wastewater systems in the unit.

The primary need in the Menifee County Planning Unit, Sanitary Sewer Overflow Correction, is addressed by one project for Menifee County Sanitation District #1. This proposed project is the Equalization Basin Project (SX21165017), which would construct a 150,000 gallon basin to store wastewater during wet weather conditions to prevent sanitary sewer overflow. The City of Frenchburg identified Sanitary Sewer Overflow Correction as the system's primary need, but at this time a project that will feasibly address the issue has not been developed.

The planning unit's secondary need is Extend Service to Unserved Areas. The City of Frenchburg has four proposed projects to extend services to area that are currently unserved. McCausey/Amos Ridge Extension Project (SX21165007) proposes to extend services to 20 homes in the Amos Ridge area, Bryant Lane/Shotgun Hollow Sewerline Extension Project (SX21165015) proposes to extend the system to serve 29 currently unserved homes, Tower Road & Crescent Hill Wastewater Collection Improvements (SX21165013) proposes to serve 12 homes with failing septic systems/straight pipes, and the Ponder Branch Sewer Line Extension Project (SX21165010) would serve 9 homes on Ponder Branch.

An additional need identified in the Menifee County Planning Unit is Repair/Replace Existing Infrastructure. Menifee County Sanitation District #1

MONTGOMERY COUNTY PLANNING UNIT NEEDS

Primary Need: Repair and Replace Existing Infrastructure

Secondary Need: New Collector Sewer and Appurtenances

The Montgomery County Planning Unit consists of two wastewater utilities which are: Mt. Sterling Water and Sewer and Montgomery County Sanitation District #2. Each system was provided an opportunity to identify their primary and secondary Clean Water needs. The primary need for the Montgomery County Planning Unit is Repair/Replace Existing Infrastructure. The secondary need for the planning unit is New Collector Sewer and Appurtenances.

There are 13 proposed projects in the Montgomery County Planning Unit that address the primary Clean Water need for the unit which is Repair/Replace Existing Infrastructure. Many of these project consist of upgrading existing lift stations in the systems (SX21173010, SX21173015, SX21173024, SX21173034, SX21173049, SX21173050, SX21173051, SX21173052, and SX21173053). In addition to the lift station upgrade projects, the systems have other projects that address the unit's primary need. Mt. Sterling Water and Sewer's Manhole Rehab Project (SX21173014) proposes to rehab/replace 250 manholes and the Inflow & Infiltration Study and Repair Project (SX21173055) proposes to upgrade the 6-inch sewer mains and other portions of the system that are at/near capacity.

The secondary Clean Water need in the Montgomery County Planning Unit, New Collector Sewer and Appurtenances, was identified as a need by both systems in the unit. Currently there are no proposed projects by the systems in the planning unit that address this need.

An additional need identified by a wastewater system in the unit is Extend Services to Unserved Areas.

MORGAN COUNTY PLANNING UNIT NEEDS

Primary Need: Repair and Replace Existing Infrastructure

Secondary Need: Economic Stimulation

The Morgan County Planning Unit contains one wastewater system, which is the City of West Liberty Water and Sewer System. The City of West Liberty identified both the primary and secondary Clean Water needs of the Morgan County Planning Unit.

The primary need for Clean Water identified in the Morgan County Planning Unit is Repair and Replace Existing Infrastructure. The City of West Liberty identified repair/replacement as the primary need because of the damage sustained on the system's older wastewater infrastructure (i.e. clay tile pipes) during and following the spring 2012 tornadoes that occurred in West Liberty's service area. In addition to the repair/replacement of the damaged infrastructure, West Liberty also has a proposed project to meet the repair/replace primary need by improving the equipment at the wastewater treatment plant. This project consists of replacing pumps at the plant and installing monitoring equipment (SX21175021).

The Morgan County Planning Unit's secondary Clean Water need has been identified by the City of West Liberty Sewer System as Economic Stimulation. The City of West Liberty would like to expand the sewer system to sufficiently serve not only the existing businesses and industry found within the planning unit, but for potential future businesses and industry within the unit as well.

ROWAN COUNTY PLANNING UNIT NEEDS

Primary Need: Repair and Replace Existing Infrastructure

Secondary Need: Economic Stimulation

The Rowan County Planning Unit contains one wastewater system, which is the Morehead Utility Plant Board (MUPB) System. MUPB identified both the primary and secondary Clean Water needs of the Rowan County Planning Unit.

The primary Clean Water need identified for Rowan County was Repair/Replace Existing Infrastructure. MUPB has two proposed projects that address this need. Phase 5 Inflow and Infiltration Sewer System Rehab Project (SX2105033) proposes to rehab existing infrastructure to eliminate inflow and infiltration. Another project, Wastewater Treatment Plant Equipment Upgrade Project (SX2120531), proposes to replace 100 malfunctioning residential grinders in the collection system.

The secondary Clean Water need in the Rowan County Planning Unit is Extension of Services to Unserved Areas. The 519 Sewer Extension Project (SX21205035) proposes to extend sewer services to 13 homes and 1 animal shelter.