### Strategic Water Resource Development Plan

Summary of Wastewater Treatment Systems

### Lake Cumberland Area Development District

Water Resource Development Commission

March, 2000

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#### LAKE CUMBERLAND AREA DEVELOPMENT DISTRICT

Lakeway Drive P.O. Box 1570 Russell Springs, KY 42642 (606)-866-4200

#### ADD WASTEWATER SUMMARY

#### ADD Sewer Service (map)

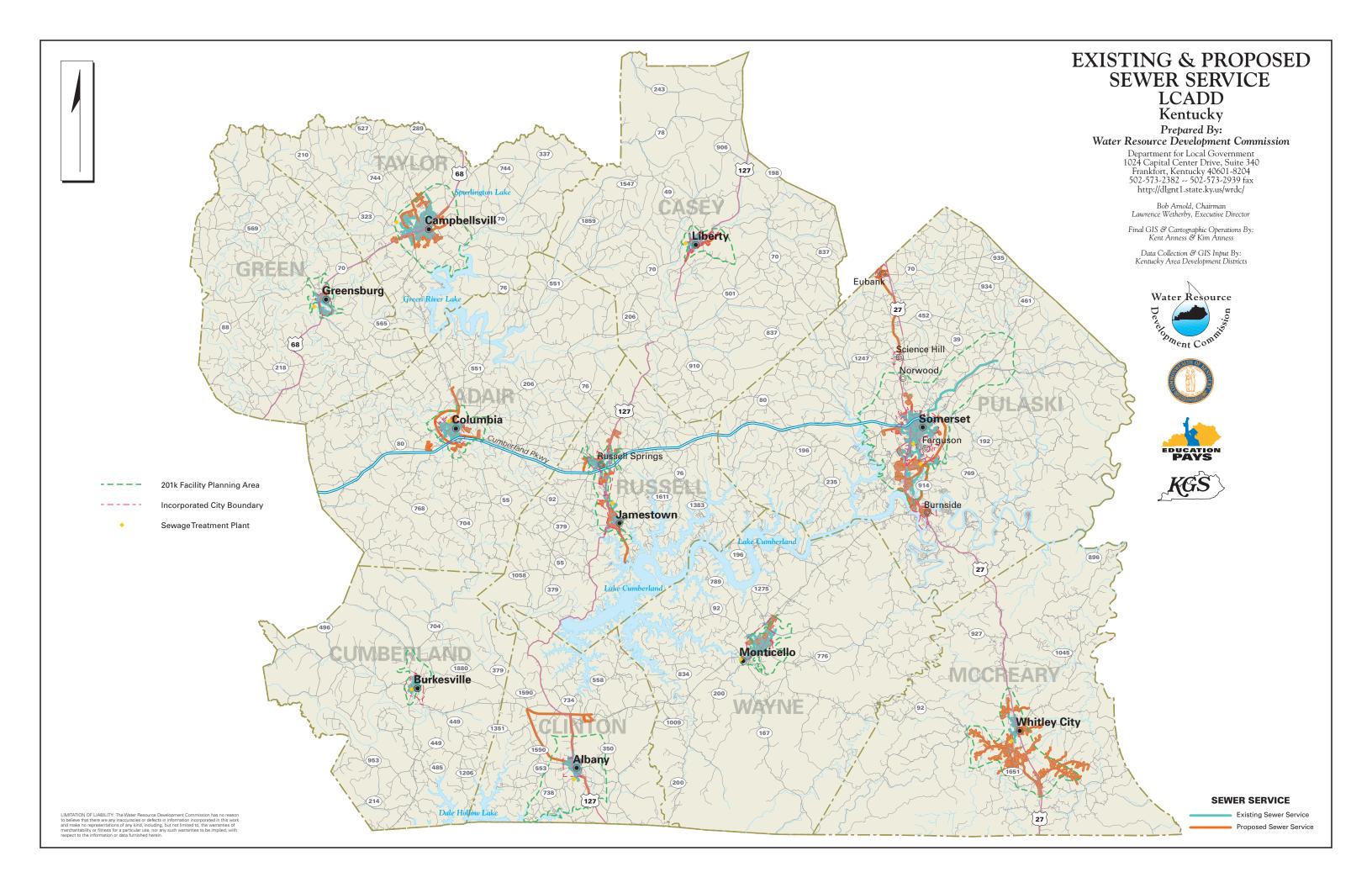
- Estimated 1999 population of 189,000-26% on public sewer
- Estimated 2020 population of 205,000--37% on public sewer
- Proposed projects would connect about 7,500 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$63,700,000
- Estimated funding needs for public sewer 2006-2020--\$46,400,000

Lake Cumberland Area Development District had an estimated population of 188,668 (77,524 households) in 1999 with a projected population of 205,195 (90,736 households) in 2020. Public sewer systems served 49,000 area residents, or 26 percent of the population. Proposed sewer line extensions for the period 2000-2020 would provide service to an additional 7,500 households. About 140,000 people in the region currently rely on onsite treatment systems.

Estimated populations and public sewer service for the ten counties in the region is given below (13 public sewer systems serve the region):

County	1999 Pop	On Public	2020 Pop	On Public
Adair	16,200	4,200 (26%)	17,800	5,300 (30%)
Casey	14,500	2,200 (15%)	14,300	2,600 (18%)
Clinton	9,300	1,900 (20%)	9,200	2,300 (25%)
Cumberland	6,800	1,900 (28%)	6,600	2,000 (30%)
Green	10,500	2,500 (24%)	10,400	2,600 (25%)
McCreary	16,600	1,200 (7%)	18,400	9,200 (50%)
Pulaski	56,800	14,800 (26%)	65,900	23,100 (35%)
Russell	16,500	3,600 (22%)	18,100	5,400 (30%)
Taylor	22,500	11,700 (52%)	23,800	15,500 (65%)
Wayne	18,900	5,100 (27%)	20,900	7,300 (35%)
Region	189,000	49,000 (26%)	205,000	75,300 (37%)

Estimated costs for public sewer expansions and associated system upgrades are:



#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
ADAIR							-
Columbia		1000					1,000
CASEY							none
CLINTON							-
Albany	133	3500	0	4000			7,500
CUMBERLAND							none
GREEN							-
Greensburg		167					167
McCREARY							-
McCreary County Water and Sanitary Sewer District	1342	11877	0	0	0		11,877
PULASKI							
Somerset	291	2,965	5,048	-	20,000		28,013
Burnside	328	4,475					4,475
County Total	619	7,440	5,048		20,000		32,488
RUSSELL							-
Jamestown	154	2,402					2,402
Russell Springs	167	2,088					2,088
County Total	321	4,490					4,490
TAYLOR							-
Campbellsville	555	4,558					4,558
WAYNE							-
Monticello	353	1,651					1,651
Lake Cumberland ADD Total	3,323	34,683	5,048	4,000	20,000		63,731

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
ADAIR							
Columbia	232	1500	5000				6,500
CASEY							-
Liberty	143	1997					1,997
							-
CLINTON							-
Albany	65	1227					1,227
CUMBERLAND							none
GREEN							none
							-
McCREARY							-
McCreary County Water and SanitarySewer District	1,336	12,115			4,620		16,735
PULASKI							-
Science Hill	273	3,328					3,328
Somerset	1,528	10,696	-			500	11,196
County Total	1,801	14,024				500	14,524
RUSSELL							_
Russell Springs	129	1534					1,534
TAYLOR							-
Campbellsville	469	3724					3,724
WAYNE							-
Monticello	34	136					136
Lake Cumberland ADD Total	4,209	36,257	5,000		4,620	500	46,377

#### **ADAIR COUNTY**

#### Adair County Sewer Service (map)

- Estimated 1999 population of 16,200--26% on public sewer
- Estimated 2020 population of 17,800--30% on public sewer
- Proposed projects would connect about 250 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$1,000,000
- Estimated funding needs for public sewer 2006-2020--\$6,500,000

Adair County had an estimated population of 16,243 (6,752 households) in 1999 with a projected population of 17,753 (7,827 households) in 2020. Public sewer is provided to about 26 percent of the county's residents. About 5,000 households in the county use on-site wastewater treatment. About 250 customers could be added to public sewer service through new line extensions in 2000-2020.

#### ADAIR COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
ADAIR							,
Columbia 001001SX	ind	1,000					1,000

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
ADAIR							,
Columbia							-
SX001002			5,000				5,000
SX001003	118	500					500
SX001004	44	500					500
SX001005	70	500					500
Total	232	1,500	5,000				6,500

#### **CITY OF COLUMBIA SANITARY SEWER SYSTEM**

The city of Columbia operates a sanitary sewer that serves most of the people within the corporate limits. The system serves 1,510 customers. There are 1,211 residential customers,

# SEWER SERVICE AREAS ADAIR COUNTY Kentucky

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Data Collection & GIS Input By: Kentucky Area Development Districts







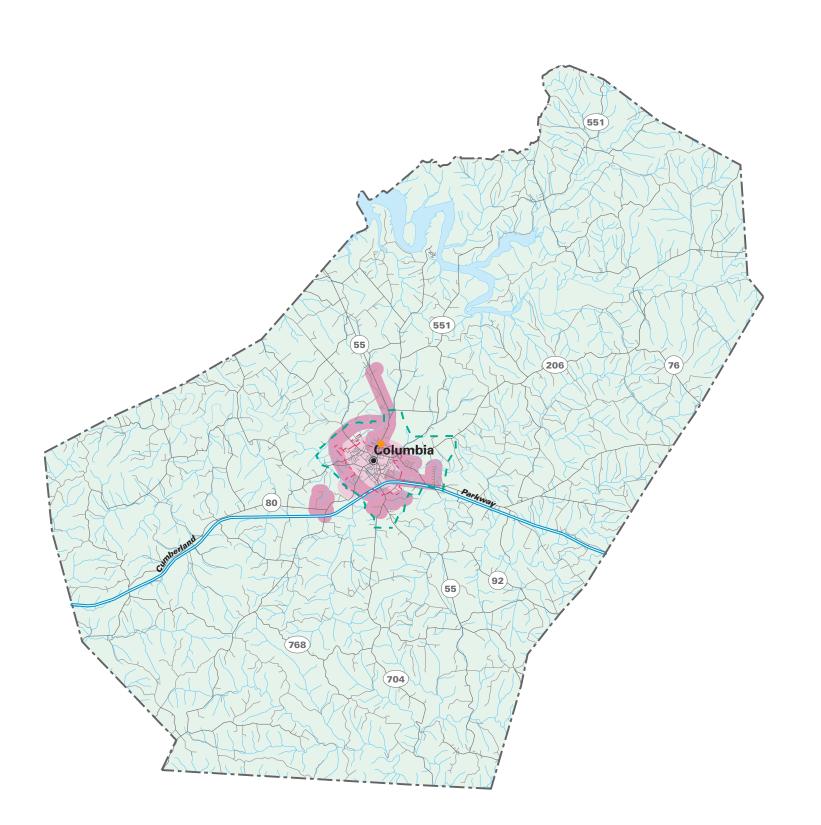


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---- Incorporated City Boundary

Sewage Treatment Plant



**SEWER SERVICE STATUS BY OWNER** 

EXISTING PROPOSED SERVICE AREA SERVICE AREA



COLUMBIA MUNICIPAL UTILITIES COMMISSION

272 commercial customers, 5 industrial customers, and 22 institutional customers. The total population served is 3,800.

After a meeting with Jim Harper, Superintendent of Columbia Utilities, the basis for future sewer line expansion was established. He identified two projects that they hoped to complete by 2005 and three projects that were slated for 2020. Project number SX001002 (see Table 1) has zero households; this is a proposed by-pass project. The by-pass has not been built yet, however upon completion the city is expecting growth in this area. Project number SX001001 is the sewer line that will service the new industrial park.

Project number SX001003 and SX001004 (see Table 1) are projects that will only occur if the city annexes the area. Project number SX001005, is also a 2020 project, this project is a subdivision near the Country Club. This area is quite a distance from city limits, if this project becomes a reality a package treatment facility will have to be built. This project will become feasible in the future if there is an interchange built at the intersection of HWY 61 and the Cumberland Parkway. Currently, they are working on widening and straightening 61 in Cumberland and Adair counties and in the future this project will extend on to Columbia.

#### **CASEY COUNTY**

#### Casey County Sewer Service (map)

- Estimated 1999 population of 14,500--15% on public sewer
- Estimated 2020 population of 14,300--18% on public sewer
- Proposed projects would connect about 150 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$0
- Estimated funding needs for public sewer 2006-2020--\$2,000,000

Casey County had an estimated population of 14,484 (5,957 households) in 1999 with a projected population of 14,291 (6,182 households) in 2020. Public sewer is provided to about 15 percent of the county's residents. About 5,100 households in the county use on-site wastewater treatment. About 150 customers could be added to public sewer service through new line extensions in 2000-2020.

#### CASEY COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
CASEY							none
Liberty No immediate projects)							-

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
CASEY							-
Liberty							-
SX45001	35	465					465
SX45002	12	292					292
SX45003	96	1,240					1,240
Total	143	1,997					1,997

#### **CITY OF LIBERTY SANITARY SEWER SYSTEM**

The city of Liberty operates a sanitary sewer system that serves most of the people within the corporate limits. They system has a total of 825 customers. There are 675 residential customers and 150 commercial customers. All the customers are located within city limits.

### SEWER SERVICE AREAS **CASEY COUNTY** Kentucky

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Data Collection & GIS Input By: Kentucky Area Development Districts





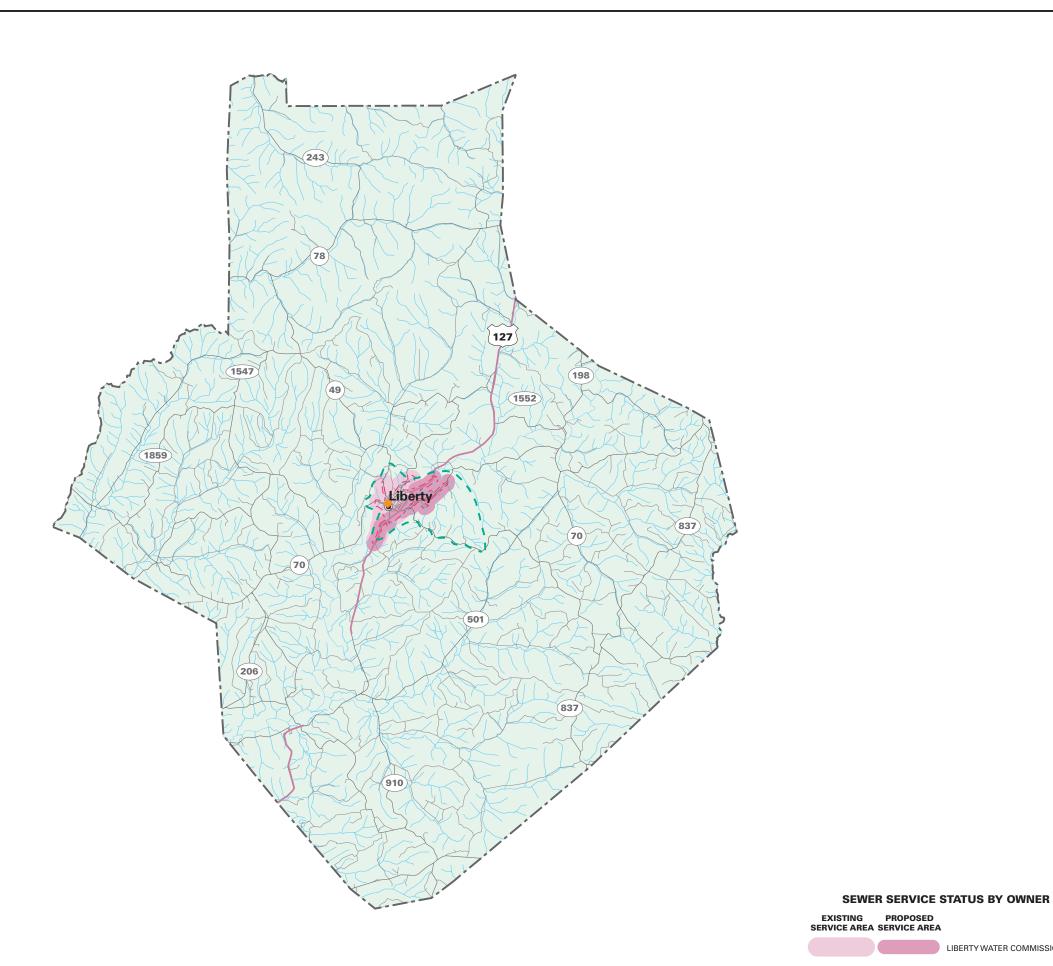




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---- Incorporated City Boundary

Sewage Treatment Plant



PROPOSED

LIBERTY WATER COMMISSION

By the year 2020 the city of Liberty will be providing sewer to almost the entire city limits. The three projects that are planned are within city limits. There are no plans for expansion beyond the city. There are no 2005 projects planned. Project number SX045001 and SX045002 are located on US 127. (see Table 1) Project number SX045003 is located on highway 70. All of these projects are proposed for 2020. (see Table 1)

#### **CLINTON COUNTY**

#### Clinton County Sewer Service (map)

- Estimated 1999 population of 9,300-20% on public sewer
- Estimated 2020 population of 9,200--25% on public sewer
- Proposed projects would connect about 200 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$ 7,500,000
- Estimated funding needs for public sewer 2006-2020--\$1,230,000

Clinton County had an estimated population of 9,285 (3,815 households) in 1999 with a projected population of 9,226 (4,042 households) in 2020. Public sewer is provided to about 20 percent of the households. About 3,100 households use on-site systems. About 200 customers could be added to public sewer service through new line extensions in 2000-2020.

#### CLINTON COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
CLINTON							-
Albany SX053001	133	3,500		4,000			7,500

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
CLINTON							-
Albany							-
SX053002	38	594					594
SX053003	27	633		•			633
Total	65	1,227					1,227

#### **CITY OF ALBANY SANITARY SEWER SYSTEM**

The city of Albany operates a sanitary sewer system, which serves most of the people within the corporate limits. The system has a total of 1,012 customers.

Albany has proposed a fourteen-mile loop (Project number SX053001). (see Table 1) This loop will provide sewer to the industrial park and to other prospective industrial sites. There are no sewer line expansion projects within the city at this time. Albany has also proposed a

# SEWER SERVICE AREAS CLINTON COUNTY Kentucky

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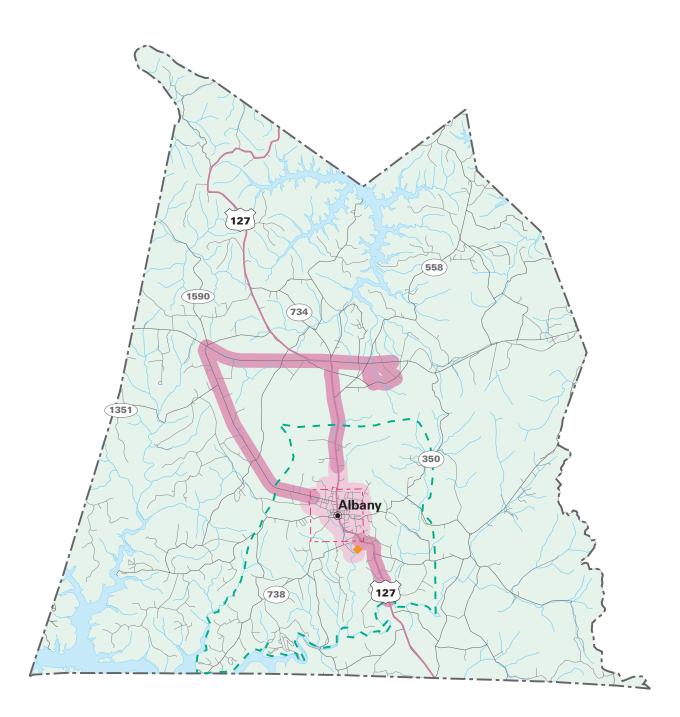


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Sewage Treatment Plant



#### SEWER SERVICE STATUS BY OWNER

EXISTING PROPOSED SERVICE AREA



CITY OF ALBANY

sewer line expansion on the south side of town (Project number SX045002). This will serve customers on south Hwy. 127, and include a mixture of businesses and residences. Project number SX053003 is a subdivision that is located near the Industrial Park site. (see Table 1)

#### **CUMBERLAND COUNTY**

#### Cumberland County Sewer Service (map)

- Estimated 1999 population of 6,800--28% on public sewer
- Estimated 2020 population of 6,600--30% on public sewer
- Estimated funding needs for public sewer 2000-2005--\$0
- Estimated funding needs for public sewer 2006-2020--\$0

Cumberland County had an estimated population of 6,798 (2,894 households) in 1999 with a projected population of 6,580 (2,845 households) in 2020. Public sewer is provided to about 28 percent of the county's residents. About 2,100 households in the county use on-site treatment systems.

#### **CUMBERLAND COUNTY SEWER PLAN**

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
CUMBERLAND							none

#### Proposed Projects 2006-2020

System	New Customers	Cost (\$1000)	Line Upgrade	Treatment	New Treatment	Lift Stations,	Total Costs
	Served		(\$1000)	Expansion	(\$1000)	and other	(\$1000)
				(\$1000)		(\$1000)	
CUMBERLAND							none

#### CITY OF BURKESVILLE SANITARY SEWER SYSTEM

The city of Burkesville operates a sanitary sewer system, which serves most of the residences, businesses, and industry within the corporate limits. The system has 787 residential customers, 130 commercial customers, and three industrial customers. There are a total of 920 customers.

At this time there are no expansions planned for the city of Burkesville. There are also no plans for expansion outside of the city. The city is currently providing sewer to nearly all residents within city limits.

# SEWER SERVICE AREAS CUMBERLAND COUNTY Kentucky

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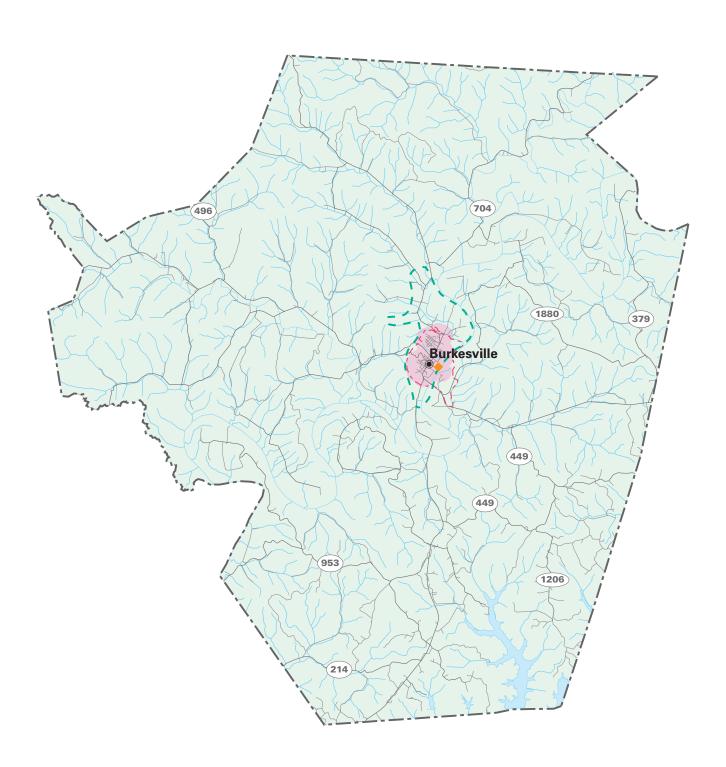


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Sewage Treatment Plant



**SEWER SERVICE STATUS BY OWNER** 

EXISTING PROPOSED SERVICE AREA



CITY OF BURKESVILLE

#### **GREEN COUNTY**

#### Green County Sewer Service (map)

- Estimated 1999 population of 10,500--24% on public sewer
- Estimated 2020 population of 10,400--25% on public sewer
- Estimated funding needs for public sewer 2000-2005--\$167,000
- Estimated funding needs for public sewer 2006-2020--\$0

Green County had an estimated population of 10,468 (4,510 households) in 1999 with a projected population of 10,364 (4,684 households) in 2020. Public sewer is provided to about 24 percent of the county's residents. About 3,400 households treat wastewater on site.

#### GREEN COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
GREEN							-
Greensburg SX087001	ind	167					167

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
GREEN							none

#### CITY OF GREENSBURG SANITARY SEWER SYSTEM

The city of Greensburg operates a sanitary sewer system, which serves most of the residences, businesses, and industry within the corporate limits. The system also serves a shopping center just outside city limits to the north. The system serves a total population of 2,100 people.

The only sewer line expansion (Project number SX087001) that Greensburg has planned is a forced main going to the Industrial park on the north side of town. (see Table 1)

The city has no other plans for expansion inside or outside city limits.

# SEWER SERVICE AREAS GREEN COUNTY Kentucky

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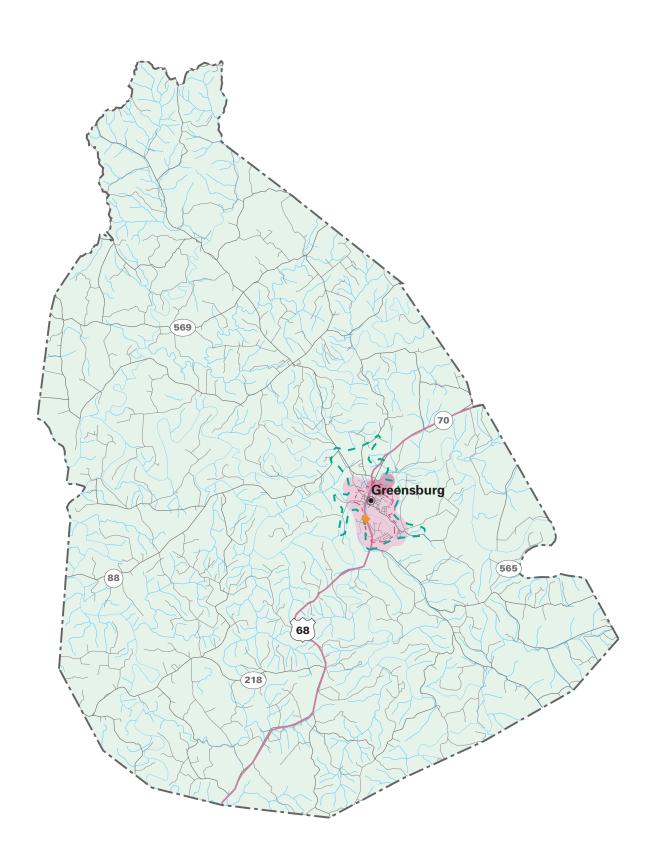


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Sewage Treatment Plant





EXISTING PROPOSED SERVICE AREA



#### MCCREARY COUNTY

#### McCreary County Sewer Service (map)

- Estimated 1999 population of 16,600--7% on public sewer
- Estimated 2020 population of 18,400--50% on public sewer
- Proposed projects would connect about 2,700 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$11,900,000
- Estimated funding needs for public sewer 2006-2020--\$16,700,000

McCreary County had an estimated population of 16,630 (6,015 households) in 1999 with a projected population of 18,417 (7,683 households) in 2020. Public sewer is provided to about 7 percent of the county's residents. About 5,600 households treat wastewater on site. About 2,700 customers could be added to public sewer service through new line extensions in 2000-2020.

#### MCCREARY COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
McCREARY							,
McCreary County Water and Sanitary Sewer District							,
SX147001	214	1,338					1,338
SX147002	325	3,260					3,260
SX147003	284	2,694					2,694
SX147004	254	2,286					2,286
SX147005	265	2,299					2,299
Total	1342	11,877					11,877

# SEWER SERVICE AREAS MCCREARY COUNTY Kentucky

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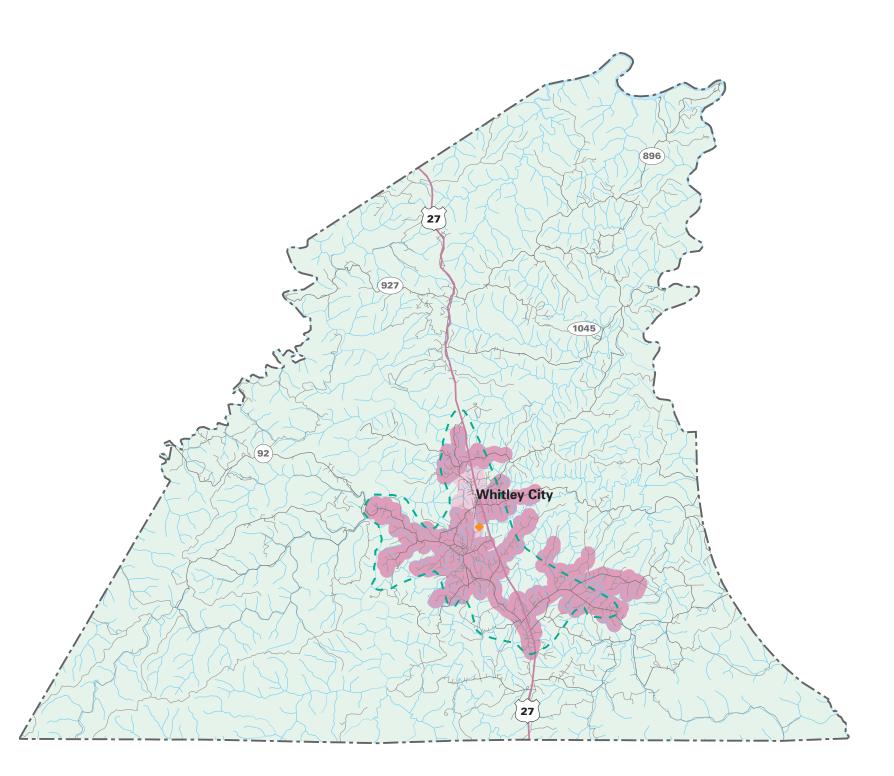


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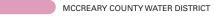
---- Incorporated City Boundary

Sewage Treatment Plant



#### SEWER SERVICE STATUS BY OWNER

EXISTING PROPOSED SERVICE AREA



#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
McCREARY							,
McCreary County Water and SanitarySewer District							,
SX147006	414	1,831			4,620		
SX147007	275	2,909					
SX147008	287	2,785					
SX147009	360	4,590					
Total	1336	12,115			4,620		16,735

#### MCCREARY COUNTY WATER DISTRICT SANITARY SEWER SYSTEM

McCreary County operates a sanitary sewer system, which serves 369 customers. They serve a total population of 1,218.

McCreary County has proposed approximately 90 miles of sewer line expansions. (see Table 1) These lines will extend into the county to the proposed prison site, industrial park, and other areas. They have proposed an extensive system that will serve a large part of the county. McCreary County has a fairly new system and they are still in the initial stages of expansion to their sewer line system.

#### **PULASKI COUNTY**

#### Pulaski County Sewer Service (map)

- Estimated 1999 population of 56,800--26% on public sewer
- Estimated 2020 population of 65,900--35% on public sewer
- Proposed projects would connect about 2,400 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$32,500,000
- Estimated funding needs for public sewer 2006-2020--\$14,500,000

Pulaski County had an estimated population of 56,807 (23,456 households) in 1999 with a projected population of 65,892 (29,575 households) in 2020. Public sewer is provided to about 26 percent of the county's residents. About 17,400 households treat wastewater on site. About 2,400 customers could be added to public sewer service through new line extensions in 2000-2020.

#### PULASKI COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
PULASKI							,
Somerset							,
SX199002			1,646			250	1,896
SX199003			1,690		20,000		21,690
SX199004			1,712				1,712
SX199005	182	1,240					1,240
SX199006	83	1,025					1,025
SX199007	26	700					700
Total	291	2,965	5,048		20,000	250	28,263
Burnside SX199001	328	4,475					4,475
County Total	619	7,440	5,048	1	20,000		32,488

# SEWER SERVICE AREAS PULASKI COUNTY Kentucky

#### Prepared By: Water Resource Development Commission

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Data Collection & GIS Input By: Kentucky Area Development Districts







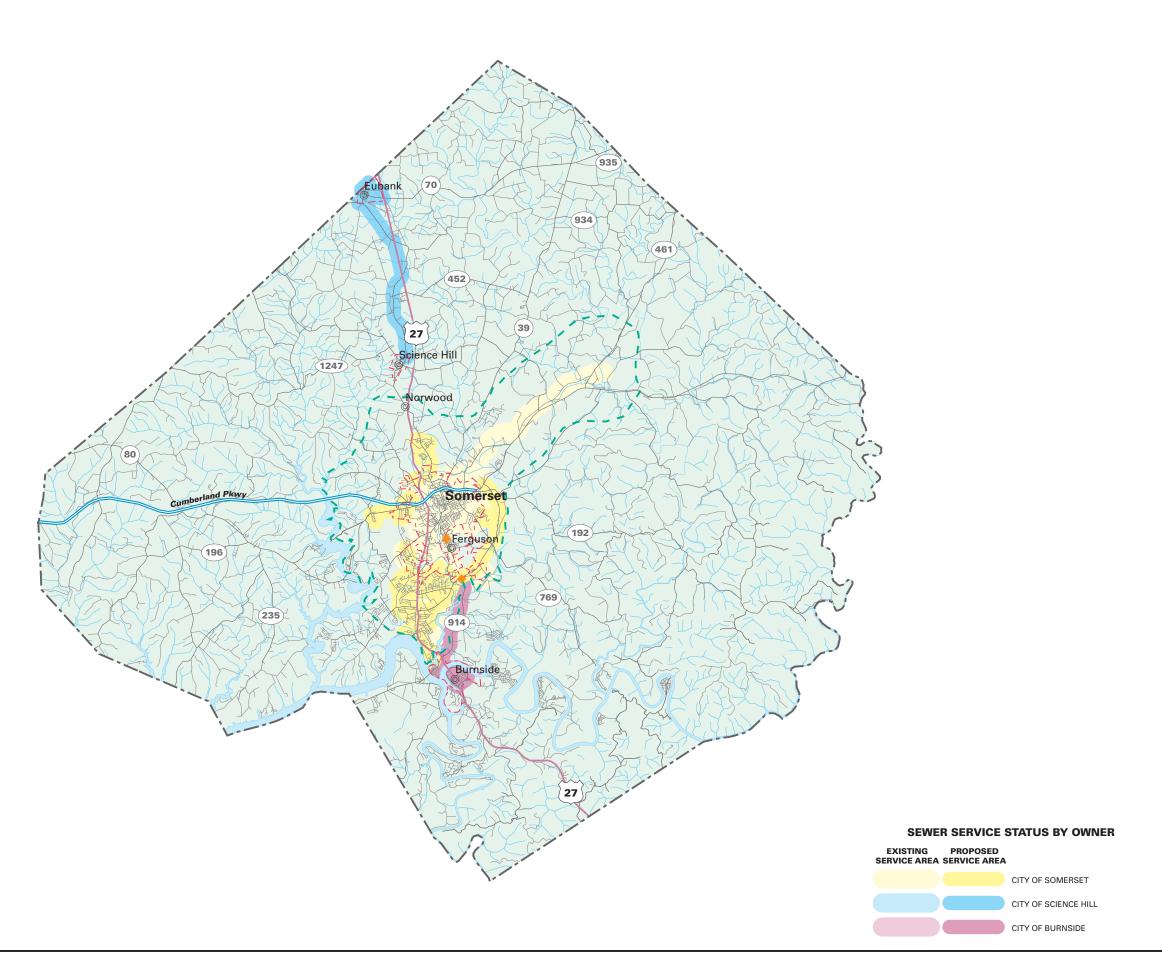


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- - - 201k Facility Planning Area

---- Incorporated City Boundary

Sewage Treatment Plant



Proposed Projects 2006-2020
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System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
PULASKI							-
Science Hill SX199016	273	3,328					3,328
Somerset							
SX199008	297	2,065				500	2,565
SX199009	34	713					713
SX199010	237	967					967
SX199011	164	1,527					1,527
SX199012	235	1,881					1,881
SX199013	207	1,126					1,126
SX199014	115	1,000					1,000
SX199015	239	1,417					
Total	1,528	10,696				500	11,196
County Total	1,801	14,024				500	14,524

#### CITY OF BURNSIDE SANITARY SEWER SYSTEM

At this time Burnside does not have a sanitary sewer system. They are currently working on establishing a system. They are going to lay lines throughout the city and then send their sewage to Somerset's treatment plant. Burnside's system will serve 328 customers. Burnside is in the funding stage of the sanitary sewer system. The system will probably be built in its entirety as Project number SX199001, by 2005. (see Table 1)

#### CITY OF SCIENCE HILL SANITARY SEWER SYSTEM

The city of Science Hill operates a sanitary sewer system that serves customers within the corporate limits. The system serves 290 residential customers. The total population served is 760.

Science Hill has one long-term sewer project. This project will provide sewer service to the city of Eubank. Eubank is seven miles north of Science Hill and at this time they have no city wide sewer service. This project (Project number SX199016) would include twelve miles of sewer lines and could potentially serve 273 households. (see Table 1)

This project will not occur until the 2020 time frame. Science Hill sewer system can handle this additional load without any problems.

#### CITY OF SOMERSET SANITARY SEWER SYSTEM

The city of Somerset serves 5, 961 customers. There are 4,580 residential customers, 1,354 commercial customers, 9 industrial customers, and 18 institutional customers. The sewer

system serves a total population of 15,618. Somerset's treatment plant is used to treat Somerset and Ferguson. It will also be used to treat Burnside when they get their system going.

Somerset has proposed three projects (Project numbers SX199002, SX199003, SX199004) that have a household count of zero. (see Table 1) The reason for this is the sewer lines are trunk sewer lines only. These lines are located on the new by-pass (KY 914) and on US 27. These sewer lines will primarily serve industrial and commercial customers. These three projects are 2005 projects.

There are three other 2005 projects besides the three trunk sewer projects. These three projects will mainly serve residential customers (Project numbers SX199005, SX199006, and SX199007). (see Table 1) There are eight long-term projects, these projects are residential projects (Project numbers SX199008-SX199015). (see Table 1) When these projects are completed, most of the Somerset water district will be provided sewer.

#### **RUSSELL COUNTY**

#### Russell County Sewer Service (map)

- Estimated 1999 population of 16,500--22% on public sewer
- Estimated 2020 population of 18,100--30% on public sewer
- Proposed projects would connect about 450 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$4,490,000
- Estimated funding needs for public sewer 2006-2020--\$1,530,000

Russell County had an estimated population of 16,529 (6,944 households) in 1999 with a projected population of 18,052 (8,090 households) in 2020. Public sewer is provided to about 22 percent of the county's residents. About 5,400 of the county's households treat wastewater on site. About 450 customers could be added to public sewer service through new line extensions in 2000-2020.

#### RUSSELL COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
RUSSELL							
Jamestown							,
SX207003	106	1,471					1,471
SX207004	48	931					931
Total	154	2,402					2,402
Russell Springs							,
SX207001	124	1,684					1,684
SX207002	43	404					404
Total	167	2,088					2,088
County Total	321	4,490					4,490

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
RUSSELL							-
Russell Springs							-
SX207005	108	1,107					1,107
SX207006	21	427					427
Total	129	1,534					1,534

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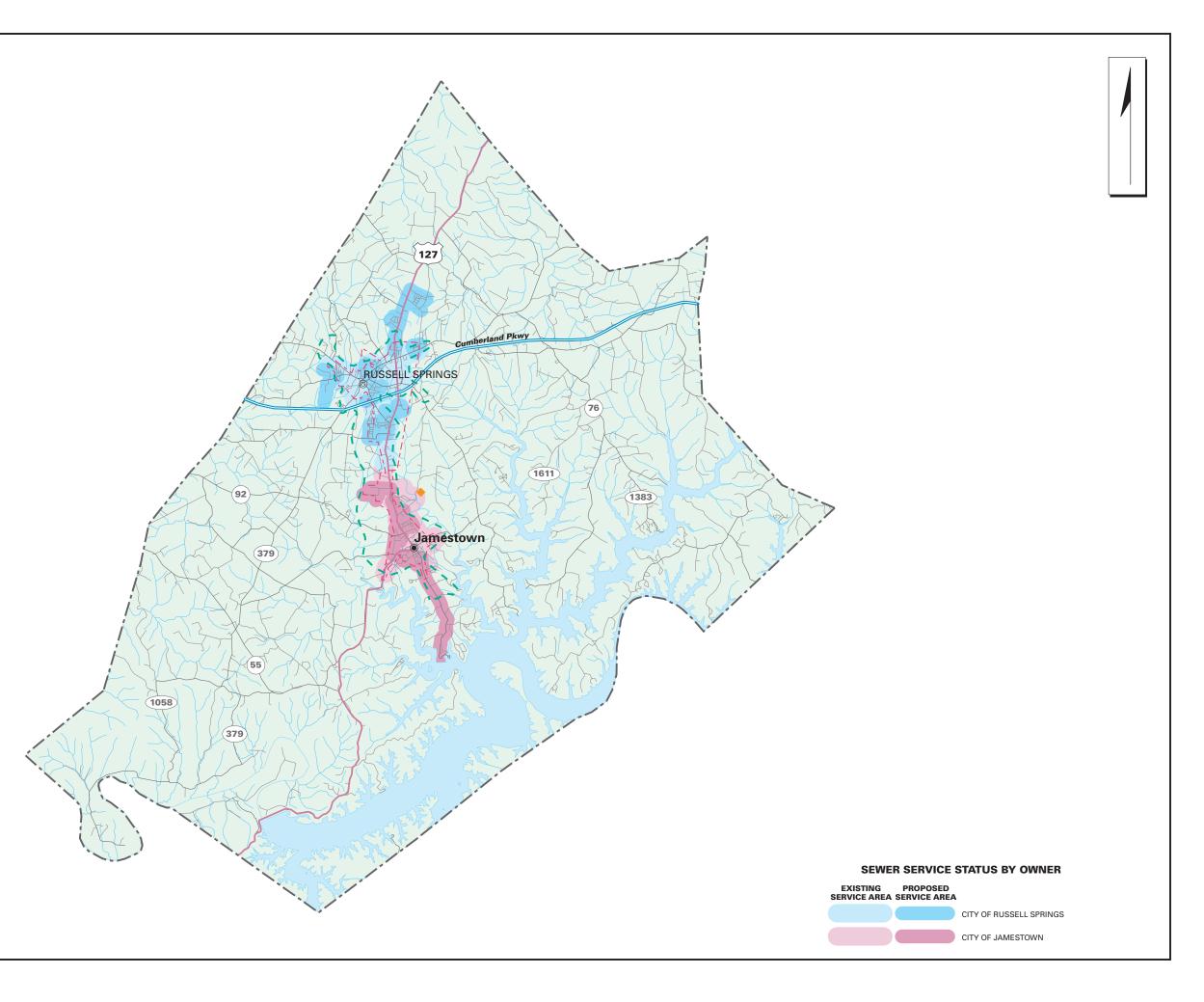


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- - - 201k Facility Planning Area

---- Incorporated City Boundary

Sewage Treatment Plant



#### CITY OF JAMESTOWN SANITARY SEWER SYSTEM

The city of Jamestown has two short-term sewer projects. One project (Project number SX207003) is several short segments scattered throughout the city. (see Table 1) With the completion of this project, most of the city will be served. This project will connect some loose ends and complete some road segments.

The other potential project is a 3.5 mile line to Jamestown Marina (Project number SX207004). (see Table 1) The marina would like to hook up to a sanitary sewer system because they are currently running trucks. Waste disposal is a big problem for boat docks, especially large ones. Both of these projects are proposed for 2005.

#### **CITY OF RUSSELL SPRINGS SANITARY SEWER SYSTEM**

The city of Russell Springs has two short-term sewer projects. One project (Project number SX207002) is a sewer line that extends north of city limits to the new elementary school site. (see Table 1) The other project is several extensions in different areas of the city (Project number SX207001). (see Table 1) This project will provide sewer to many city residents that currently do not have sewer service. These projects are proposed for 2005.

Russell Springs also has two 2020 sewer projects (Project numbers SX207005 and SX207006). (see Table 1) These projects will only occur if these areas are annexed into the city. These projects will serve residential customers.

#### TAYLOR COUNTY

#### Taylor County Sewer Service (map)

- Estimated 1999 population of 22,500--52% on public sewer
- Estimated 2020 population of 23,800--65% on public sewer
- Proposed projects would connect about 1,000 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$4,560,000
- Estimated funding needs for public sewer 2006-2020--\$3,720,000

Taylor County had an estimated population of 22,478 (9,362 households) in 1999 with a projected population of 23,765 (10,749 households) in 2020. Public sewer is provided to about 52 percent of the county's residents. About 4,500 households treat wastewater on site. About 1,000 customers could be added to public sewer service through new line extensions in 2000-2020.

#### TAYLOR COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
TAYLOR							-
Campbellsville Municipal Utilities							-
SX217001	304	1,833					1,833
SX217002	62	1,727					1,727
SX217003	189	998					998
Total	555	4,558					4,558

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
TAYLOR							-
Campbellsville Municipal Utilities							-
SX217004	136	1,541					1,541
SX217005	333	2,183					2,183
Total	469	3,724					3,724

#### **CITY OF CAMPBELLSVILLE SANITARY SEWER SYSTEM**

Campbellsville based their sewer expansions on their 201 facilities plan. They recently have revised their boundaries and we used the new boundaries as the basis for their sewer expansions.

### **SEWER SERVICE AREAS** TAYLOR COUNTY

Kentucky

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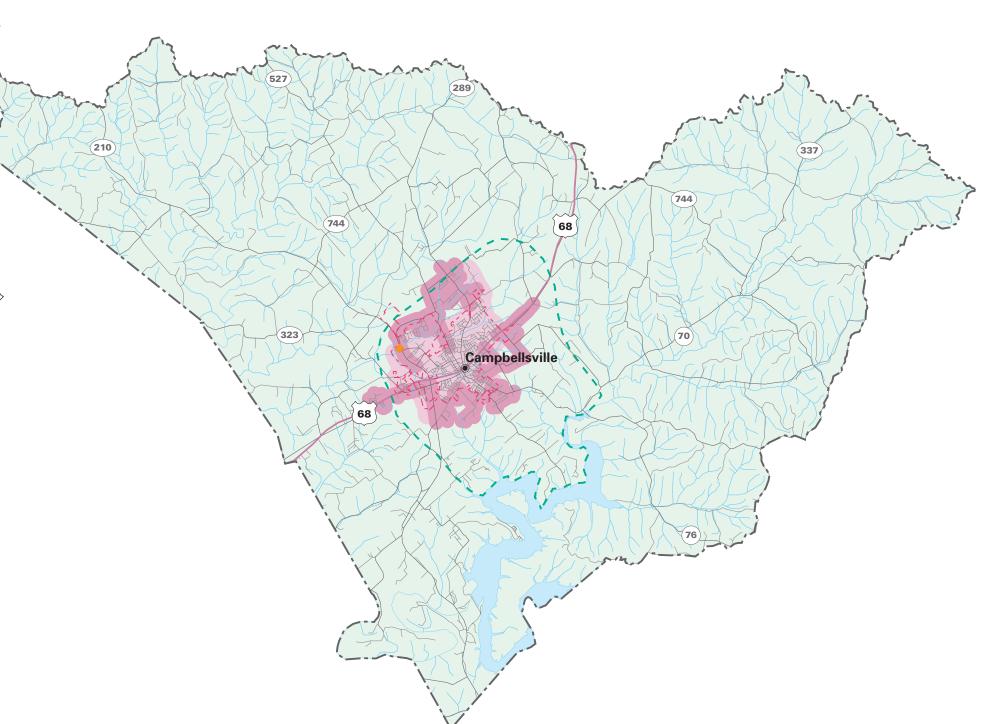




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**SEWER SERVICE STATUS BY OWNER** 

EXISTING PROPOSED SERVICE AREA



Campbellsville has three short-term projects and two long-term projects. Project numbers SX217001, SX217002, and SX217003 are the 2005 projects. Project numbers SX217004 and SX217005 are the 2020 projects. (see Table 1) These projects lie outside of the corporate limits. These projects will serve all different types of customers.

#### **WAYNE COUNTY**

#### Wayne County Sewer Service (map)

- Estimated 1999 population of 18,900--27% on public sewer
- Estimated 2020 population of 20,900--35% on public sewer
- Proposed projects would connect about 400 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$1,650,000
- Estimated funding needs for public sewer 2006-2020--\$136,000

Wayne County had an estimated population of 18,945 (7,574 households) in 1999 with a projected population of 20,855 (9,059 households) in 2020. Public sewer is provided to about 27 percent of the county's residents. About 5,500 households treat wastewater on site. Nearly 400 customers could be added to public sewer service through new line extensions in 2000-2020.

#### WAYNE COUNTY SEWER PLAN

#### Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
WAYNE							-
Monticello SX231001	353	1,651					1,651

#### Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
WAYNE							,
Monticello SX231002	34	136					136

#### CITY OF MONTICELLO SANITARY SEWER SYSTEM

Monticello has one immediate project and one long-term project. At this time there are no plans for expansion outside of the corporate limits. The immediate project (Project number SX231001) is a series of short lines scattered throughout the city, after completion of this project most of the city will be provided with sewer service. Project number SX231001 will be completed by 2005. The long-term project (Project number SX231002) is a very small

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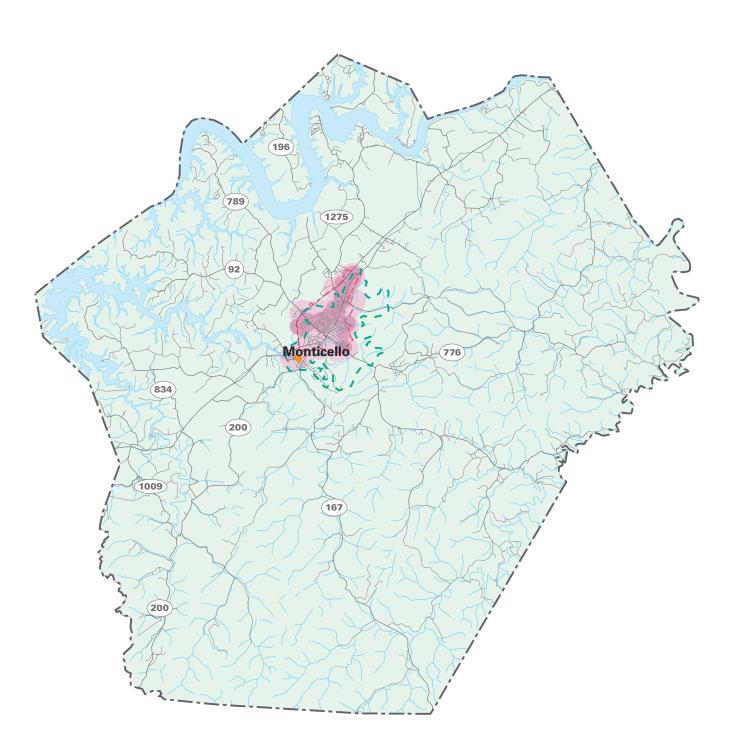


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#### **SEWER SERVICE STATUS BY OWNER**

EXISTING PROPOSED SERVICE AREA



MONTICELLO MUNICIPAL UTILITY COMMISSION

project. Project number SX231002 will be completed by 2020. After this project city wide sewer service will be accomplished.