ASSET INVENTORY REPORT FORM



Kentucky Division of Water's Asset Inventory Report, as required by 401 KAR 5:006

In accordance with 401 KAR 5:006, regional planning agencies are required to submit an asset inventory report to the Cabinet, if: (a) It has been ten (10) years since the regional planning agency submitted a regional facility plan or asset inventory report; and (b) the regional planning agency does not meet the requirements established in Section 2(2) of the regulation. The asset inventory report requires regional planning agencies to take inventory of the physical assets of their wastewater system(s), assess their condition, prioritize capital needs, and develop a plan for funding those needs. By incorporating this planning tool into their daily operations, the Cabinet expects regional planning agencies to achieve the following benefits:

- a. Reduce overall cost of system operation and maintenance;
- b. Target capital investments toward critical assets;
- c. Improve compliance record and remediate or correct illegal overflows or bypasses;
- d. Acquire a better understanding of treatment and/or collection system components;
- e. Reduce borrowing costs. Funding agencies prefer lending to municipalities which properly manage and operate their assets;
- f. Potentially improve bond credit ratings;
- g. Make a sound case for rate increases to local governing boards and rate payers;
- h. Prolong the useful life of their assets. Knowing the condition of assets allows regional planning agencies to make timely repairs; and
- i. Reduce duplication of efforts and improve the allocation of staff time and other resources.

A complete report consists of this form and copies of supporting documentation. All regional planning agencies that wish to use this report to demonstrate compliance with the requirements of 401 KAR 5:006, Section 4 must complete all seven sections of the report and provide copies of the supporting documentation required under section VI. This report form consists of seven (7) sections:

- I. REGIONAL PLANNING AGENCY DATA
- II. REVENUES AND EXPENSES
- III. ASSET INVENTORY
- IV. PROJECT PRIORITIZATION
- V. FUNDING PLAN
- VI. COPIES OF SUPPORTING DOCUMENTATION
- VII. CERTIFICATION

Most of the information required in the form is self-explanatory. The instructions in some of the sections are given to highlight some of the information that may require interpretation or additional clarification. You may add extra pages for entering additional asset inventory information especially ft you are a regional planning agency with multiple treatment plants. If you need to include additional information, attach the extra pages and put the question number next to your answers and/or copy and paste the asset inventory tables on the additional pages. It's quite likely that all of the details of the asset inventory presented in this report will not apply to every wastewater system. If the parameter does not apply then indicate by entering N/A in the blank or modify the worksheets so they conform to the particular needs of your system. For additional information or assistance, contact the Kentucky Division of Water, Wastewater Planning Section (502) 564-3410.

I. REGIONAL PLANNING AGENCY DATA. These seven subsections provide the basic information necessary to identify and characterize the system. The point of contact information must include an organization and an individual. The address can be a mailing address (e.g., P.O. Box). The physical location of the facility is required for treatment plants only. The address should be the physical location of the facility, and not a P.O. Box. Descriptive addresses are acceptable if no physical address exists.

1. Regional Planning Agency Information	
Regional Planning Agency Name	Mount Sterling Water and Sewer System
Mailing Address	P.O. Box 392/300 East Main Street
City, State, Zip Code	Mount Sterling, Kentucky, 40353
Contact person	Wendell Fraley
Title	Operations Manager
Telephone number	(859) 498-0166
Physical Location (if different from mailing address; not P.O. Box)	300 East Main Street
Email Address	msws@kywifi.com
Fax number	(859) 497-0438
KPDES and/or KISOP Number	KY0104400
Name of watershed(s) within the planning area (Hydrological Unit Code [HUC] 11)	Hinkston Creek Watershed Somerset Creek Watershed Spencer Creek Watershed Harpers Creek Watershed Howards Mill Watershed Stepstone Creek Watershed Salt Well Branch Watershed
List waterbodies within the planning area that are on the 303(d) list of waters not supporting one ore more designated uses reported in the most recent Integrated Report to Congress on Water Quality in Kentucky	Spruce Creek 0.0 to 1.7, into Slate Creek Hinkston Creek 51.5 to 65.9, into South Fork Licking River UT of North Branch Lulbeguub Creek 0.0 to 2.2, into North
	Documentation Attached.
 Discharge Information. Facilities may have multiple discharge typ to surface waters, reuse). Additionally, one or more facilities may d information carefully. If multiple discharges apply, enter percentage 	bes (e.g., discharge to another facility, subsurface discharge, outfall ischarge to the facility. Please review and enter discharge swhich must add to up 100%.
Discharge Type	Outfall
Name of receiving water(s)	Hinkston Creek
Milepoint or Latitude & Longitude	Mile point 61.7 as listed in Mount Sterling Water and Sewer's permit # KY0104400
Does the treatment works discharge or dispose of its wastewater in another manner (e.g., land application, underground percolation, hydrologic controlled release [HCR], well injection)? If yes, provide the disposal method.	Belt Filter Press, Hauled to landfill
Does the system discharge to or receive wastewater from other municipalities or service areas (For treatment systems, provide the name(s) KISOP No(s).; For collection systems, provide the name(s) and KPDES No(s).)	Νο

3. Facility Effluent Treatment Level. Please indicate the level of treatment available at the treatment plant. Current Treatment Level should be selected if the facility is or will be in operation as of the date of report submittal. Projected Treatment Level should be entered if the facility will be in operation for all or part of the 10-year period after the date of report submittal. Treatment levels include primary (45mg/I<BOD; process in which the effluent is treated to remove floating debris and solids by screening and sedimentation); **advanced primary** (process in which chemicals are added to further treat primary effluent and increase the amount of solid matter removed); **secondary** (the effluent must meet the minimum removal standards for Biochemical Oxygen Demand, total suspended solids, and pH); and **advanced** (a level of treatment that is more stringent than secondary treatment or produces a significant reduction in nonconventional or toxic pollutants present in the facility's effluent; the treatment level is considered advanced if the BOD permit limit is less than 20 mg/l or the facility has one or more advanced treatment processes.

What levels of treatment are provided? Check all that apply.	
X Primary: No Primary Clarifiers, Yes Screening	X Secondary:
Advanced Primary	Advanced
X Other Describe: 2 Oxidation Ditches running parallel	X Other Describe: UV system, Belt Filter Press
Drainstad (Indiasta the lovel of treatment and prainstad data)	

Projected (Indicate the level of treatment and projected date):

4. Facility Type. Enter all the facility types that apply to the system. Facility type includes treatment plant, collection (combined sewers, separate sewers, interceptor sewers, and biosolids handling facility. Indicate whether the facility is currently used by placing a check mark in "Present" column(s) or whether it is planned to be used in the future by placing a check mark in "Projected" column(s).

Facility Type	Present	Projected
Wastewater Treatment Plant Oxidation Ditches	x	
Separate Sewers	x	
Belt Filter Press	X	

5. Flow and Population Served. Each year's data must be based on a 12-month time period. Subcategories a through d apply to treatment plants. If applicable, indicate the projected design capacity for treatment plants. The population served information table has two main components; each must be completed for the present condition and the 10-year projected condition.

	Present	Projected in	10 Years	
a. Design flow rate	3.0	3.0	<u> </u>	Units (mgd)
	<u>Two Years Ago</u>	Last Year	This Year	
b. Annual average daily flow rate	2.358	1.986	2.279	Units (mgd)
	<u>Two Years Ago</u>	Last Year	<u>This Year</u>	
c. Maximum/Peak daily flow rate	5.545	4.616	5.374	Units (mgd)
		· · · · · · · · · · · · · · · · · · ·		
d. Average daily flow projected in 10) years	2.0	6	Units (mgd)

e	Average Inflow and Infiltration. Estimates should be based on most recent data	6 mgd	Units (mgd)
		Present	Projected in 10 years
	Residential flow contribution (mgd)	<u>1.23 mgd</u>	<u>1.75 mgd</u>
	Commercial/industrial flow contribution(mgd) (Projected calculations should be based on: 1,000 to 1,500 gallons per day/acre)	.168 mgd	.200 mgd
f	Population served (Calculations should be based on: Census data specific to the service area or No. of Accounts X 3)	15,216 served	17,000
	Unserved population in the planning area		-

6. Treatment Plant Discharge Limits. List the discharge limits for each parameter listed in the most current KPDES permits. If the parameter does not apply to the permits, then indicate by entering N/A in the blank.

Parameter	Monthly Average	Daily Maximum	Daily Minimum	
Biological Oxygen Demand (BOD ₅ ; mg/l) or CBOD ₅	15	22.5	N/A	
Total Suspended Solids (TSS; mg/l)	30	45	N/A	
Ammonia Nitrogen (mg/l) (Summer and Winter)	4.0 - 10.0	<u>6.0 – 15.0</u>	N/A	
Dissolved Oxygen (mg/l)	Not less than 7.0	Not less than 7.0	N/A	
Fecal Coliform (colonies/100 ml)	N/A	N/A	N/A	
Escherichia Coli (colonies/100 ml)	130	240	N/A	
pH (standard units)	6.0 (min)	9.0 (max)	N/A	
Total Residual Chlorine (mg/l)	N/A	N/A	N/A	
Phosphorus (Total; mg/l)	1.0 - 2.0	2.0 - 4.0	N/A	
Total Nitrogen (mg/l)	Report	Report	N/A	
Other (Indicate): Chronic Toxicity	N/A	1.0	N/A	
7. Pretreatment. Does the wastewater system have pret (Circle One)	treatment program?	Yes		

Treatment Facility	
Hoodworks Rumping	Pumps – Pumps 1-6, Pipes/Valves
neauworks Fullipilig	Instrumentation – 2 Flow Meters, 2 Level Sensors, SCADA Hub
	2 Fine Screens
Screening	Instrumentation – 1 Raw Sampler, Gas Detection System
2 Oxidation Ditches	10 Various Size Mixers (Details in Addendum)
2 Clarifiers	Electrical Motor, Gearbox Algae Removal System Sprayer System
RAS/WAS Pumping	Pumps – 1-4 RAS, 1-2 WAS, Pipes/Valves Electrical – Motor Control Center, Generator Instrumentation – 3 Flow Meters, SCADA Hub
UV Building	Pumps – 1-2 Non Potable Water Electrical Control Center, SCADA Hub, Ultraviolet System, 2 Level Sensors 1 Effluent Sampler Aeration System/Roots Blowers, Air Compressor Parshall Flume
Sludge Removal	2 Ashbrook Belt Filter Presses, 2 Sandwich Conveyers, 1 Screw Conveyer Chemical Feed – 3- Polymer Feed Systems, Aluminum Sulfate Feed System Pumps – Water Wash Pumps 1-2, Pipes/Valves
Emergency Generator	1 – 400KW Onsite Detroit Generator, Battery Charging System
Administration Building	In House Laboratory Instrumentation – SCADA System Control Center Operations Control Center
Collection System	
Gravity Collection	Manholes, 4-12 Inch Mail Lines
Pumping Stations	Pump Stations – 17 Stations (2 Pumps Per Station) Electrical Control Panels – Standby Generator Connection Quick Connects (Bypass Pumping) Force Main – 4-12 Inch Force Main Lines Air Release Valves
Treatment Unit Processes	2 – Biological Nutrient Removal Oxidation Ditches
**For More Detailed Information See Addendum To Assets	

II. REVENUES AND EXPENSES. Data items in this section are necessary to understand the financial condition of the system. The information provided can be estimated or based upon audit reports.										
1 Ourrent Field Veer and F	-			Year		Month				
Year		SCAI		2011 / 2012 July						
2 Madian Hausahald Incom	o (MHI) of the Serv	ico Aroa	Amount (\$)							
	ice Alea			36,034	.00					
		Amount (\$)								
 Current User Charges Pe (per 4,000 gallons) 	r Month			ndustrial						
				\$23.45		\$24.8	6			
					Amoun	t (\$)	-			
4. Projected User Charges	Per Month Over Ne	xt two		Residenti	al	Commercial/I	ndustrial			
	01137			\$24.85		\$26.3	5			
		Enter Kn	own	Future Change	es in Revenues					
5. Annual Revenues		(Enter ar	nour	nts in current fis	scal year dollars)				
	Current Year	Year 20	11	Year 2010	Year 2009	Year 2008	Year 2007			
Total retail user charges	1,081,956*	2,001,03	38	1,938,055	1,928,487	1,905,799	1,926,359			
Total wholesale user charges	-	-			-	-	_			
Interest earned	Interest earned 5,869*				48,481	81,551	95,334			
Funds drawn from reserves	-	-		_	-	-	-			
Other revenues (e.g., tap-on fees: impact fees, etc.)	34.343*	71.016	3	78.073	78.869	86.527	67.502			
Total	1,122,168	2,088,4	23	2,043,777	2,055,837	2,073,877	2,089,195			
		Enter Known Future Changes in Expenses								
6. Annual Expenses		(Enter amounts in current fiscal year dollars)								
	Current Year	Year 20	11	Year 2010	Year 2009	Year 2008	Year 2007			
Salaries, wages, benefits	204,038*	388,07	7	354,147	327,711	201,866	309,946			
Supplies, equipment,	27 106*	77 41	4	52 665	110 750	108 027	67 457			
Bopairs and parts	40.452*	90.199	+ >	104 260	P1 576	112 266	07,437 92.674			
	Flectric	Electric	00,100 104,203 01,370 113,300 Electric Electric Electric Electric		Electric	Electric				
	82 991	174 27	6	168 891	165.486	174 267	158 468			
	Water	Wate	r	Water	Water	Water	Water			
Utilities (electric, gas, water)	126	235		269	217	184	332			
	Gas	Gas		635	Gas	Gas	Gas			
	Gas	Gas		Gas	Gas	Gas	Gas			
Payments to other facilities	-	-		-	-	-	-			
Funds added to reserves	90.360	690.07	4	693.043	698.483	803.429	796.503			
Debt service	677.004	678.15	9	670.493	671.612	672.718	673.815			
Other expenses		-			-	-	-			
Total	1,122.168	2.088.4	23	2,043.777	2,055.837	2,073.877	2,081.195			
*Data through December 2011 Debt Service for full year.										

III. ASSET INVENTORY. This is the most extensive section of the report and will allow the Division of Water to evaluate the types of assets, anticipated failure and replacement or rehabilitation costs. The data items required should be readily available to most operators or managers. Most systems already have some form of inventory established but not centralized. The following asset inventory is designed to collect data and information into a centralized format. The inventory provides a format where information and data will be listed in the categorized asset tables and include corresponding characteristics, assigned assessment and failure mode ratings, and assigned strategies to renew or maintain the assets. Taking an initial inventory of assets can be a labor intensive job. Systems should start by identifying their critical assets to prepare the initial inventory. The collection of assessment data and information can be done through the direct inspection, observation, repairs, operation and maintenance routines, investigation/ monitoring/reporting, and analysis of data. Because systems need to continue to collect new data and information and build upon initial inventories, an ongoing, organized, and systematic collection of data should be established so the process develops. One of the most important outcomes of the assessments is determining the remaining useful life of an asset. A number of factors can affect the useful life of assets, including routine service and proper maintenance, excessive use, and environmental conditions such as topography, soil, or climate.

- 1. What is the State of My Assets? Assessing the state of assets is one of the core components of developing an asset inventory. It provides the critical information needed to assess condition, performance and reliability of system components. The measure of performance for a wastewater system can be based on four critical areas: customer service level, regulatory compliance, risk to public health and safety, and environmental protection. Conduct assessments on the condition, performance and reliability of current wastewater system assets using the definitions and tables below and assign the ratings to the following tables. Assessments are to be evaluated on a scale of 1 to 5.
 - Current Condition- Rates the condition of the asset. The higher the number the better the condition of the asset.
 - Current Performance- Rates whether the asset meets capacity requirements now and in the future. The higher the number the better the performance of the asset.
 - Current Reliability- Rates the asset based on its frequency of breaking down. The higher the number the better the reliability of the asset.

a. Current Cor									
Rating	Remaining Useful Life	Maintenance Level							
5	New or Excellent Condition	Normal Preventative Maintenance							
4	Minor Defects Only	Normal Preventative Maintenance, Minor Corrective Maintenance							
3	Moderate Deterioration	Normal Preventative Maintenance, Major Corrective Maintenance							
2	Signification Deterioration	Major repair, rehabilitate							
1	Beyond Useful Life	Unit Must Be Replaced							
b. Current Perf	ormance Assessment								
Rating	Description								
5	Exceeds/Meets all Performance Targets								
4	Minor Performance Deficiencies								
3	Considerable Performance Deficiencies								
2	Major Performance Deficiencies								
1	Fails to Meet Performance Targets								
c. Current Reli	ability Assessment								
Rating	Remaining Life	Frequency of Failure							
5	New	Almost Negligible							
4	Seldom Breakdown	More than 10 years							
3	Occasional Breakdown	Every 5 Years							
2	Periodic Breakdown	Every 2 Years							
1	Continuous Breakdown	1 Year or Less							

a. Current Condition Assessment

- 2. Which Assets are the Most Critical? Critical assets have high failure risks (old, poor condition, etc.) and/or major consequences if they do fail (major expense, system failure, safety concerns, environmental damage, water quality impacts, etc.). Some components of a system should take precedence for investment based on risk due to age, condition, and importance or consequence. Components found to be in poor condition, or with severe defects and high failure modes, should be addressed as soon as possible after they are discovered. Less severe defects can be prioritized for more frequent inspection or cleaning, repair, rehabilitation, or replacement. Conduct critical rating assessments of current wastewater system assets using the definitions and tables below and assign the ratings to the following tables:
 - Consequence of Failure- Rates the asset based on the consequences of failure. Failure of some assets could be detrimental to the total system or facility components. The lower the number the lower the risk.
 - Probability of Failure- Rates the asset based on the percentage of effective life consumed- as an asset ages the likelihood of failure increases. The lower the number the lower the probability of failure. Enter the percentage shown.
 - Redundancy- Rates the criticality of the assets based on the availability of backup. Available backup reduces risk.

a. Consequence of Failure									
Rating	Description	Percentage (%) Affected	Level						
1	Minor Component Failure	0-25%	Asset						
2	Major Component Failure	25-50%	Asset						
3	Multiple Asset Failure	25-50%	Facility/Sub-system						
4	Major Facility Failure	50-100%	Facility						
5	Minor Sanitary System Failure	20-40%	Total System						
6	Medium Sanitary System Failure	40-60%	Total System						
7	Intermediate Sanitary System Failure	60-80%	Total System						
8	Significant Sanitary System Failure	80-90%	Total System						
9	Total	90-100%	Total System						
b. Probability o	of Failure								
<u>Rating</u>	Percentage (%) of Effective Life Consumed								
1	20%								
2	40%								
3	60%								
4	80%								
5	100%								
c. Current Red	lundancy Assessment								
<u>Rating</u>	Level of Redundancy	Reduce Probability of Failure by:							
1	50% Backup	50%							
2	100% Backup	100% Backup 90%							
3	200% Secondary Backup 98%								

- 3. Renewal and Maintenance Strategy: This asset inventory report will help regional planning agencies acquire a better understanding of their systems and make more informed decisions about future capital investments. An important part of conducting an inventory is determining a strategy of how to manage assets through renewal and maintenance. At some point, continuing to repair the asset will no longer be cost-effective and it will need to be rehabilitated or replaced. A preventive maintenance program will enable you to maximize the useful lives of your assets and can help you avoid problems and cut down or delay replacement costs. Conduct assessments on strategies to renew or maintain assets using the definitions and tables below and assign the options to the following tables:
 - Renewal Strategy- Record decisions on what will be done with each asset.
 - Maintenance Strategy- Record decisions on the type of maintenance tactics to perform based on the selected renewal strategy.
 - Recommended Renewal Date- Renewal date is equivalent to the end of useful life date of an asset per the manufacturer. You may enter a different date based on your renewal strategy. This can be used in calculating the future value of the renewal strategy.
 - Costs of Renewal Option- For this example assume all assets will be replaced. Enter your estimate of what the renewal strategy will cost in today's dollars

a. Renewal Str	rategies								
<u>Option</u>	Description	Туре							
1	Do Nothing	Non-Capital							
2	Continue with Status Quo	Non-Capital							
3	Maintain Differently	Non-Capital							
4	Operate Differently	Non-Capital							
5	Repair	Capital							
6	Refurbish/Rehabilitate	Capital							
7	Replace Asset with Similar Asset	Capital							
8	Replace with a New or Improved Asset	Capital							
9	Reduce Levels of Service or Cause of Failure	Non-Asset							
b. Maintenance	e Strategy								
<u>Option</u>	Maintenance Tactic								
1	PM - Preventive Maintenance								
2	CBM - Condition based maintenance								
3	UBM - Usage based maintenance								
4	RTF - Run to Failure								
5	CM - Corrective Maintenance								



4. Collection System Gravity Pipe	s and Manholes- Existing														
						As	sessment Rating	js		Failure Rating	js		Renewal	I and Maintenance Strategy	
Description of Area	Description of Manholes (diameter, material, lid type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/Maintenance Date	Estimated Cost of Renewal/Maintenance Option
	Concrete well with a cast iron lid														
Pg. A4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	1,200	42	PVC	2003	5	5	5	8	1	1	2	2	To be determined	58,620
Pg. A4 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	4,600	36	PVC	2003	5	5	5	8	1	1	2	2	To be determined	193,200
Pg. A4 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	160	12	PVC	2005	5	5	5	6	1	1	2	1	Every six years	4,160
Pg. A4 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	2,000	8	PVC	2005	5	5	5	5	1	1	2	1	Every six years	44,000
	Concrete well with a cast iron lid														
Pg. A5 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	2,700	12	PVC	2008	5	5	5	6	1	1	2	1	Every six years	78,200
Pg. A5 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	7,400	8	PVC	To be determined	4	5	4	5	2	1	2	1	Every six years	162,800
Pg. A5 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	1,200	6	PVC	To be determined	4	5	4	5	2	1	2	1	Every six years	25,200
Pg. B2 of system map	Concrete well with a cast iron lid $23\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	4,400	8	PVC	To be determined	5	5	5	5	2	1	2	1	Every six years	96,800
	Concrete well with a cast iron lid		-		To be										
Pg. B3 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	1,600	36	PVC	determined	5	5	5	8	1	1	2	2	Every six years	67,200
Pg. B3 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	1,200	12	PVC	To be determined	5	5	5	5	1	1	2	1	Every six years	31,200
Pg. B3 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	11,800	8	PVC	To be determined	5	5	5	5	1	1	2	1	Every six years	259,600
	Concrete well with a cast iron lid				To be										
Pg. B4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	4,800	36	PVC	determined	5	5	5	8	1	1	2	2	Every six years	201,600
Pg. B4 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	2,700	15	PVC	To be determined	5	5	5	6	1	1	2	1	Every six years	75,600
	Concrete well with a cast iron lid				To be		_	_				-			
Pg. B4 of system map	22 % " round and 7 ½" tall casting	240	12	PVC	determined	5	5	5	8	1	1	2	2	Every six years	6,240
Pg. B4 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	5,600	8	PVC	To be determined	5	5	5	5	1	1	2	1	Every six years	121,000
	Concrete well with a cast iron lid				To be										
Pg. B5 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	15,300	8	PVC	determined	5	5	5	5	1	1	2	1	Every six years	336,600
Pg. C2 of system map	Concrete well with a cast iron lid $22\frac{3}{4}$ " round and $7\frac{1}{2}$ " tall casting	200	12	PVC	To be determined	5	5	5	6	1	1	2	1	Every six years	5.200
	Concrete well with a cost iron lid	200			To bo							_			6,200
Pg. C2 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	12,800	8	PVC	determined	5	5	5	5	1	1	2	1	Every six years	281,600
	Concrete well with a cast iron lid		10	01 71	1071		-	_				•			444.400
Pg. C3 of system map	22 % " round and 7 ½" tall casting	4,400	12	Clay Tile	19/1	4	5	5	8	1	1	2	1	Every six years	114,400
Pg. C3 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	800	10	Clay Tile	1972	4	5	5	8	1	1	2	1	Every six years	19,200
	Concrete well with a cast iron lid														
Pg. C3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	19,600	8	Clay Tile	1972	4	5	5	8	1	1	2	1	Every six years	431,200

4a. Collection System Gravity Pipe	es and Manholes- Existing512														
Description of Area	Description of Manholes (diameter, material, lid type)	Pipe Length	Pipe Size (Inches)	Pipe	Year	Condition	Berformance	JS Reliability	F	Failure Rating	S	Renewal	Renewal Maintenance	and Maintenance Strategy Renewal/Maintenance	Estimated Cost of Renewal/Maintenance
	Concrete well with a cast iron lid		(mones)	Material	mstalled	Condition	I choimanee	Tendonity	Consequence	Tiobability	Redundancy	Olialogy	Ollalogy	Date	Option
Pg. C3 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	160	6	Clay Tile	1972	4	4	4	5	2	1	2	2	Every six years	3,360
	Concrete well with a cast iron lid														
Pg. C4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	1,800	36	PVC	2002	5	5	5	8	1	1	2	2	Every six years	75,600
Pg. C4 of system map	Concrete well with a cast iron lid $22\frac{3}{4}$ " round and $7\frac{1}{2}$ " tall casting	2.600	30	PVC	2002	5	5	5	8	1	1	2	2	Every six years	104.000
	Concrete well with a cast iron lid	_,													
Pg. C4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	2,000	15	PVC	2002	5	5	5	6	1	1	2	1	Every six years	56,000
	Concrete well with a cast iron lid													_	
Pg. C4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	3,200	12	PVC	2002	5	5	5	6	1	1	2	1	Every six years	83,200
Pg. C4 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	800	10	PVC	2002	4	4	4	5	2	1	2	1	Every six years	19,200
	Concrete well with a cast iron lid														
Pg. C4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	18,000	8	PVC	1980	4	4	4	5	2	1	2	1	Every six years	396,000
	Concrete well with a cast iron lid		40	01 71	4070										
Pg. C5 of system map	22 % " round and 7 ½" tall casting	920	10	Clay Tile	1970	4	4	4	6	1	1	2	1	Every six years	22,080
Pg. C5 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	39,800	8	Clay Tile	1970	4	4	4	6	1	1	2	1	Every six years	875,600
	Concrete well with a cast iron lid														
Pg. C5 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	200	6	Clay Tile	1970	4	4	4	6	1	1	2	1	Every six years	4,200
	Concrete well with a cast iron lid	0.000			4070				-	_		•		F	01.000
Pg. D2 of system map		2,800	8	Clay The	1979	4	4	4	5	1	1	2	1	Every six years	61,600
Pg. D3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	2,920	10	Clay Tile	1977	4	4	4	6	1	1	2	1	Every six years	90,080
	Concrete well with a cast iron lid														
Pg. D3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	45,000	8	Clay Tile	1977	4	4	4	5	1	1	2	1	Every six years	990,000
Pa D3 of system man	Concrete well with a cast iron lid 22.3% " round and 7.1% " tall casting	14 000	6	Clay Tile	1077		1	1	5	1	1	2	1	Every six years	294 000
r g. Do or system map	Concerts well with a cost iron lid	14,000	Ū		15/1				5		1	L	1	LVCI y SIX years	234,000
Pg. D4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	4,000	30	Clay Tile	1969	5	5	5	8	1	1	2	2	Every six years	160,000
	Concrete well with a cast iron lid														
Pg. D4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	800	24	Clay Tile	1969	4	4	4	7	1	1	2	2	Every six years	28,000
Pg. D4 of system map	Concrete well with a cast iron lid $22\frac{3}{4}$ " round and $7\frac{1}{4}$ " tall casting	400	12	Clay Tile	1969	4	4	4	6	1	1	2	1	Every six years	10 400
	Concrete well with a cast iron lid								Ŭ			-			
Pg. D4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	180	10	Clay Tile	1969	4	4	4	5	1	1	2	1	Every six years	4,320
	Concrete well with a cast iron lid														
Pg. D4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	26,000	8	Clay Tile	1969	4	4	4	5	1	1	2	1	Every six years	572,000
Pg, D5 of system map	Concrete well with a cast iron lid $22\frac{3}{4}$ " round and $7\frac{1}{2}$ " tall casting	520	8	PVC	To be determined	4	4	4	5	1	1	2	1	Everv six years	11.440
<u>g</u> . <u>_</u> _												-			,
Pg. E2 of system map	Concrete well with a cast iron lid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	6,000	8	Clay Tile	1970	4	4	4	5	1	1	2	1	Every six years	132,000

						As	sessment Rating	js		Failure Rating	gs		Renewal	and Maintenance Strategy	
Description of Area	Description of Manholes (diameter, material, lid type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/Maintenance Date	Estimated Cost of Renewal/Maintenance Option
	Concrete well with a cast iron lid														
Pg. E3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	3,600	24	Clay Tile	1901	4	4	4	8	1	1	2	2	Every six years	126,000
	Concrete well with a cast iron lid														
Pg. E3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	1,600	18	Clay Tile	1901	4	4	4	6	1	1	2	2	Every six years	49,600
	Concrete well with a cast iron lid														
Pg. E3 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	4,400	12	Clay Tile	1901	4	4	4	6	1	1	2	2	Every six years	114,400
	Concrete well with a cast iron lid														
Pg. E3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	4,000	10	Clay Tile	1901	3	3	3	5	2	1	2	1	Every six years	96,000
	Concrete well with a cast iron lid				To be										
Pg. E3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	21,000	8	PVC	determined	3	4	3	5	2	1	2	1	Every six years	462,000
	Concrete well with a cast iron lid				To be										
Pg. E3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	20,400	6	PVC	determined	3	3	3	5	2	1	2	1	Every six years	428,400
	Concrete well with a cast iron lid														
Pg. E3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	1,200	21	Clay Tile	1901	4	4	4	6	1	1	2	2	Every six years	42,000
	Concrete well with a cast iron lid														
Pg. E4 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	600	24	Clay Tile	1901	4	4	4	6	1	1	2	2	Every six years	21,000
	Concrete well with a cast iron lid														
Pg. E4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	1,000	18	Clay Tile	1901	4	4	4	5	1	1	2	1	Every six years	31,000
	Concrete well with a cast iron lid		-						_						
Pg. E4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	8,400	8	Clay Tile, PVC	1986	3	3	3	5	2	1	2	1	Every six years	184,800
	Concrete well with a cast iron lid								_						
Pg. E4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	1,800	6	PVC	1986	3	3	3	5	2	1	2	1	Every six years	37,800
Dr. 50 of outform mon	Concrete well with a cast iron lid	4 000		DVC	4007		5	-	-			2		From site second	00.000
Fg. F2 of system map		4,000	0	PVC	1907	5	3	3	5	1		2	1	Every six years	00,000
Da E3 of system man	Concrete well with a cast iron lid $22.\%$ " round and 7.1% " tall casting	420	19		1077		4	4	6	1	1	2	2	Evory six yoars	12 020
rg. ro of system map		420	10	Ciay The	1977	4	4	4	0	•	•	2	2	Every Six years	13,020
Pa F3 of system man	Concrete well with a cast iron lid 22^{34} " round and 7^{16} " tall casting	5 000	12	Clay Tile	1977	3	3	3	6	2	1	2	1	Every six years	130.000
i g. i o or system map		3,000	12		1311	5	3				•	E .	•		100,000
Pg. F3 of system map	Concrete well with a cast iron lid $22 \frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	5,600	10	Clay Tile	1977	4	4	4	5	1	1	2	1	Every six years	134.400
- gire er system map		0,000										_			
Pg. F3 of system map	Concrete well with a cast iron lid $22 \frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	32.200	8	Clay Tile	1979	4	4	4	5	1	1	2	1	Every six years	676.200
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;													-		
Pg. F3 of system map	Concrete well with a cast iron lid $22 \frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	800	6	Clav Tile	1979	3	3	3	5	2	1	2	1	Everv six vears	16.800
Pg. F3 of system map	Concrete well with a cast fron fid 22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	400	4	Clay Tile	1979	5	5	5	5	1	2	2	1	Every six years	7,600
	Concrete well with a cost iron lid														
Pg. F4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	3,600	8	PVC	2003	5	5	5	6	1	1	2	1	Every six years	79,200
	Concrete well with a cast iron lid														
Pg. F4 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	800	6	PVC	2003	5	5	5	6	1	1	2	1	Every six years	16,800
	Concrete well with a cast iron lid														
Pg. G3 of system map	22 $\frac{3}{4}$ " round and 7 $\frac{1}{2}$ " tall casting	1,760	12	Clay Tile, PVC	1975, 2002	5	5	5	6	1	1	2	1	Every six years	45,760

4c. Collection System Gravity Pipes	and Manholes- Existing														
						Ass	sessment Rating	IS		Failure Rating	s		Renewal	and Maintenance Strategy	
Description of Area	Description of Manholes (diameter, material, lid type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/Maintenance Date	Estimated Cost of Renewal/Maintenance Option
	Concrete well with a cast iron lid	400	40	DVC	2002							0		F	0.000
Pg. 65 of system map	Concrete well with a cast iron lid	120	10	PVC	2002	4	4	4	5	2	1	2	•	Every six years	2,000
Pg. G3 of system map	22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	7,200	8	PVC	2002	4	4	4	5	2	1	2	1	Every six years	158,400
Pg. G3 of system map	Concrete well with a cast iron lid 22 ³ / ₄ " round and 7 ¹ / ₂ " tall casting	800	12	PVC	2002	4	4	4	5	2	1	2	1	Every six years	20,800

Proposed Projects	Project Description/ Description of Area	Number of New Manholes	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Plan
No Change						

Enter any additional Collection System Gravity Pipes and Manholes information here:

If Know	'n
Manufacturer's Predicted Life	Estimated Project Cost



6. Pressure Line/Force Mains and A	Air-Release Valves - Existing			T					I						
						Ac	sessment Rating	15		Failure Ratino	15		Renewa	Land Maintenance Strategy	
Description of Area	Description of Air Release Valves (size, type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/ Maintenance Date	Estimated Cost of Renewal/ Maintenance Option
Valhalla force main	2"	7,000	6"	PVC	2001	5	5	4	5, 20%	1, 20%	2, 100%	1	1	Run to fail	168,000
Maysville Road force main	2"	800	6"	PVC	1996	5	5	4	5, 20%	2, 40%	2, 100%	1	1	Run to fail	19,200
LMS (Helig Meyer) force main	No Air Release	600	6"	PVC	1987	5	5	4	5, 20%	1, 20%	2, 100%	1	1	Run to fail	14,400
Longwood force main	2"	8,400	12"	PVC	1996	4	5	3	6, 50%	2, 40%	2, 100%	1	1	Run to fail	235,200
Woodland force main	2"	100	12"	PVC	1998	4	5	4	6, 50%	2, 40%	2, 100%	1	1	Run to fail	2,400
Silver Lake Drive force main	No Air Release	2,800	4"	PVC	2002	4	5	5	5, 20%	1, 20%	2, 100%	1	1	Run to fail	58,800
Clubhouse Lane force main	No Air Release	1,600	4"	PVC	2000	4	5	5	5, 20%	1, 20%	2, 100%	1	1	Run to fail	33,600
Doe Run Drive force main	2"	1,000	4"	PVC	1984	5	5	4	5, 20%	2, 40%	2, 100%	1	1	Run to fail	21,000
Arlington force main	2"	4,400	4"	PVC	1996	4	5	4	5, 35%	2, 40%	2, 100%	1	1	Run to fail	92,400
Commonwealth Drive force main	No Air Release	1,200	4"	PVC	2005	5	5	5	5, 20%	1, 20%	2, 100%	1	1	Run to fail	25,200
Eastland force main	No Air Release	1,360	6"	PVC	1976	5	5	4	5, 20%	2, 40%	2, 100%	1	1	Run to fail	32,640
Smith Street force main	No Air Release	960	6"	PVC	1986	5	5	4	5, 20%	2, 40%	2, 100%	1	1	Run to fail	23,040
Alliance Acres force main	2"	600	4"	PVC	1990	5	5	4	5, 30%	1, 20%	2, 100%	1	1	Run to fail	12,600
Elm Tree Village force main	2"	960	4"	PVC	1997	5	5	5	5, 30%	1, 20%	2, 100%	1	1	Run to fail	20,160
Woodford Drive force main	No Air Release	1,320	4"	PVC	1975	4	5	4	6, 50%	2, 40%	2, 100%	1	1	Run to fail	31,680
Snow Creek force main	No Air Release	1,400	4"	PVC	2001	5	5	4	5, 35%	1, 20%	2, 100%	1	1	Run to fail	29,400
Evans Drive force main	No Air Release	600	4"	PVC	1998	5	5	5	5, 20%	1, 20%	2, 100%	1	1	Run to fail	12,600

7. Pressure Line/Force Mains and Air-Release Valves – Proposed Projects. Proposed projects should be categorized into the following descriptions: No Change- There are no planned modifications; New- A new type asset will no longer be used or will be demolished in the future; Rehabilitation- Restoring or repairing parts of existing combined or separate sewer systems and municipal separate storm sewer systems; Replacement- An and a new asset is constructed. Expansion- Increasing the service area of an existing sewer system.

	Project Description/	Pipe	Pipe Size			
Proposed Projects	Description of Area	Length (feet)	(Inches)	Pipe Material	Year Planned	Manufa
No Change						

Enter any additional Pressure Line/Force Mains and Air-Release Valves information here:

e is being proposed or imp n existing asset is consider	lemented; Abandonment- The ed obsolete and is demolished,
If Know	n
cturer's Predicted Life	Estimated Project Cost

9 Dump Stationa Evisting														
8. Pump Stations- Existing														
			Total		Ass	sessment Rating	gs	F	ailure Rating	S		Renewal	and Maintenance Strategy	
Project Description/ Pump Station Name	Type (e.g. submersible, Centrifugal, etc.)	Capacity (MGD)	Dynamic Head (feet)	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/ Maintenance Date	Estimated Cost of Renewal/ Maintenance Option
	Meyers,				_									
Silver Creek, Silver Lake Drive	submersible	.115	136	2002	5	5	5	1	1, 25%	1	1	1, 5	Run to fail	65,000
	Flyght	000	To be			-	-		4.05%			4.5	Daw (a fall	05 000
Sliver Creek, Club House Lane	Submersible	.202	figured	2000	5	5	5	1	1, 25%	1	1	1, 5	Run to fail	65,000
Valhalla Pump Station, Augusta Drive	Meyers, submersible	.396	106	2001	4	5	4	2	1, 25%	1	2	1, 5	Run to fail	135,000
Longwood Pump Station,	Meyers,													
Woodland Lane	submersible	1.44	86	1996	4	5	3	3	2, 35%	1	1	1, 5	Run to fail	125,000
	Meyers,		To be											
460 Pump Station, Maysville Road	submersible	.360	figured	1996	4	5	4	3	2, 35%	1	1	1, 5	Run to fail	125,000
Woodford Drive Pump Station,	Flyght													
U.S. 460 and Woodford Drive	Submersible	.187	76	1975	3	3	3	2	2, 35%	1	1	1, 5	Run to fail	65,000
Heilig Meyers Pump Station,	Flyght	To be	To be	4007	_			_	4.05%		4	4.5	Dun ta fail	CE 000
	Submersible	figurea	figurea	1987	4	4	4		1, 25%	1	1	1, 5	Run to fail	65,000
Doe Run Pump Station, Buckhorn Trail	Flyght Submersible	.144	To be figured	1984	4	4	4	1	1, 25%	1	2	1, 5	Run to fail	65,000
Smithville Pump Station	Elvabt	To be	To be							r				
Locust Street	Submersible	figured	figured	1986	4	4	4	1	1, 25%	1	2	1, 5	Run to fail	65,000
Alliance Acres Pump Station.	Flyaht	To be	To be											
Alliance Drive	Submersible	figured	figured	1990	4	4	4	2	1, 25%	1	2	1, 5	Run to fail	50,000
Woodland Trailer Park,	Meyers,													
Woodland Lane	submersible	.115	90	1998	5	5	4	2	1, 25%	1	2	1, 5	Run to fail	80,000
	Meyers		To be											
Elm Tree Village, Village Drive	submersible	.115	figured	1997	5	5	5	1	1, 25%	1	2	1, 5	Run to fail	50,000
Arlington Pump Station,	150			(000					0.05%		•			50.000
Arlington Ave.	ABS	.266	/1	1996	4	5	4	3	2, 35%	1	2	1, 5	Run to fail	50,000
Eastland Pump Station,	Flyght Submorsible	122	85	1076	2	5	4	1	2 25%	1	2	1 5	Pup to fail	50.000
	Submersible	.122	65	1970	3	5	4	I I	2, 35%	I	2	1, 5	Run to fair	50,000
Evans Drive Pump Station, Evans Drive	Meyers, submersible	.115	27	1998	5	5	5	1	1.25%	1	1	1.5	Run to fail	50.000
					, in the second se	Ŭ	Ŭ		., 2070		•	., 0		
Snow Creek Pump Station, Arlington Ave.	Meyers, submersible	.128	47	2001	5	5	4	2	1. 25%	1	2	1.5	Run to fail	65.000
Commonwealth Drive Pump									,			, -		
Station Next to Walmart	Meyers submersible	To be figured	To be figured	2005	5	5	5	2	1, 25%	1	2	1, 5	Run to fail	70,000

.

						If Know	vn
Proposed Projects	Pump Station Name	Type (e.g., submersible,	Capacity (MGD)	Total Dynamic Head (feet)	Year Planned	Manufacturer's Predicted Life	Estimated Project (
No Change				Total Dynamo Houd (1997)			
additional Pressure Line/Force	e Mains and Air-Release Valves infor	mation here:					

Treatment Units				As	sessment Rating	js		Failure Rating	js		Renewa	I and Maintenance Strategy	Renewal and Maintenance Strategy				
	Unit Process	No. of Units	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/ Maintenance Date	Estimated Cost of Renev Maintenance Op				
Preliminary	Fine Screens	2	2003	4	4	4	1	1	1	1	1	Once/yr.	150,000				
Secondary	Clarifiers	2	2003	4	5	4	4	1	1	2	1	Once/yr.	1.2 million				
Disinfection	UV System	2	2003	5	5	4	4	1	1	2	2	12/yr.	525,000				
Bio-Solids H	Oxidation Ditches	2	2003	5	5	5	4	1	1	2	1	2/yr.	3.0 million				
Bio-Solids H	Belt Filter Press	2	2003/05	4	5	4	3	1	1	2	1	4/yr.	950,000				
Bio-Solids H	Polymer System	3	2002/03	4	5	4	3	1	2	2	1	6/yr.	50,000				

11. Treatment Units - Proposed Projects. Proposed projects should be categorized into the following descriptions: No Change- There are no planned modifications; New- A new type is being proposed or implemented; A type will no longer be used or will be demolished in the future.; Increase Capacity- Increasing the treatment capacity for existing treatment plants, and biosolids handling facilities, with respect to flow or tonnage; Increase Le This refers to any improvement in unit processes that improves the effluent quality. The addition of nutrient removal is considered to be an improvement in effluent quality (e.g., secondary effluent with nutrient removal reprewithout nutrient removal); Rehabilitation- Restoring or repairing parts of existing treatment plants, and biosolids handling facilities with no increase in capacity or level of treatment.; Replacement- An existing facility is considered of the constructed. For treatment plants, this generally implies the same degree of treatment as the demolished plant; Process Improvement- Any improvement to a facility that does not increase the capacity, increase the level of change for existing treatment plants, and biosolids handling facilities. Instrumentation/ Electrical/ Laboratory- Adding new or modifying existing instrumentation systems (e.g., SCADA), electrical systems, or laboratory facilities. Treatment Unit No. of Units Year Planned Manufac Proposed projects No Change

Enter any additional Treatment Units information here:

bandonment All unit processes that make up the facility
evel of Treatment- Improving the degree of treatment.
esents higher-quality effluent than secondary effluent
dered obsolete and is demolished, and a new facility is
f treatment, expand the service area, or make a similar
ies at an existing facility of any type.

If Knowi	ņ
cturer's Predicted Life	Estimated Project Cost

IV. Project Prioritization and Fund Plan Table Instructions:

Preparing the asset inventory report allows regional planning agencies to prioritize rehabilitation and replacement projects. The estimated cost of rehabilitation and replacement activities associated with your highest priority assets are required for completing the funding plan worksheet. Gather information on all of the costs associated with the rehabilitation or replacement of an asset and provide a citation for the source of the estimate. Costs should only account for funds you will need to replace or rehabilitate your capital assets, and should not include routine operation and maintenance costs. To determine what a rehabilitation or replacement project might cost, you can:

- 1. Consult with your engineer;
- 2. Ask local contractors for estimated costs;
- 3. Contact equipment manufacturers; and
- 4. Talk to other systems about the cost of their rehabilitations or replacements.

It is important that you update this worksheet every year, and as new information becomes available, because your system's priorities and finances may change. Costs of new assets or rehabilitations may also change. Updating your worksheet annually and setting aside the required reserve amount will help ensure that you have enough money to cover the cost of future rehabilitation and replacement projects.

It may be overwhelming to see how much money you should be saving each year to fund the replacement and rehabilitation of your assets. You can fund capital improvements by saving the total per year cost of replacements in a reserve account. Alternatively, you can use the money you already have more efficiently and put the savings towards replacing and rehabilitating your assets. Here are some strategies that could help you use your current resources more efficiently or raise additional funds:

- 1. Form partnerships with other wastewater systems to reduce operating costs. This may allow you to simplify management and obtain bulk purchasing agreements.
- 2. Consider increasing rates to raise revenue.
- Apply for financial assistance. Banks and government funding agencies can help fund infrastructure projects such as treatment system upgrades and collection line repairs. For large projects, you may want to research funding options such as state and federal clean water grant and loan programs.

Key decision makers (for example, the board of directors, elected officials of the community, or owners of manufactured housing associations) make critical decisions about the finances of wastewater systems. For this reason, they need to understand the financial needs related to the rehabilitation and replacement of the system's equipment and assets. The information compiled in this report should be presented to key decision makers and incorporated into the annual budget. This information should be reviewed annually and modified as necessary. The decision makers can also present this information to the public at board meetings.

IV. PROJECT PRIORITIZATION					
This section of the report shall identify projects chronologically c	over a projected 10-year period. Each project should include a	a project title, location, brief description, schedu	le and cost estimate. *Each project o	cost estimate should provide the source of t	ne estimate.
			Schedule		
Project Title	Location	Brief Description	(Estimated Start and End Date)	*Cost Estimate (\$)	Source
Hawkins Drive, (D3-53 to D3-51)	Hawkins Drive	I&I when it rains and needs reworked.	High Priority	9,180	Maloney and Son Construction
		Experiences high flows per I&I and has			
Spring Street (E3-305 to E3-183	Spring Street	a bottle neck at an old manhole.	High priority	44,100	Maloney and Son Construction
Generator	Hinkston Pike Wastewater Plant	Onsite Generator	High Priority	90,000	Whayne Supply
		I&I problems and an old Lift Station			
Ragland Ave to Hinkston Pike (C3-57 to C3-114)	Hinkston Pike	that needs removed	Medium Priority	161,500	Maloney and Son Construction
Mitchell Street to High Street	Mitchell Street	Old clay line with offset joints	Medium Priority	41,040	Maloney and Son Construction
		Old decaying clay line that has mix			
Maysville Road to Railway Street	Railway Street	matched sizes in it.	Low Priority	22,335	Maloney and Son Construction
		Clay pipe with roots infestation and			
Queensway Dr. and Elaine Dr.	Fuller Estates	offset joints	Low Priority	27,280	Maloney and Son Construction
West Main Street to Sycamore Street (E3-117 to E3-115)	West Main Street	Old clay line with several offsets that cause blockages	Low Priority	18,540	Maloney and Son Construction
		Line is undersized at a 4" and needs to			
Apperson Heights (E3-269 to E3-264)	Apperson Heights	be a 6", and we cant view it.	Low Priority	21,500	Maloney and Son Construction

This section of the report shall outline a funding plan.	. indicating sources of revenue from rate pay	vers, grants, bonds, loans and other f	funding sources to finance projects.	A five-vear financial plan is required, but ten-ve
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V. FUNDING PLAN				
This section of the report shall outline a funding plan	n, indicating sources of revenue from rate payers, g	rants, bonds, loans and other funding sources to fi	nance projects. A five-year financial plan is require	d, but ten-year plans are recommended.
Project Title	Overall Project Budget (\$)	Available Funding Amount (\$)	Available Funding Source	Unfunded Amount (\$)
Hawkins Drive, (D3-53 to D3-51)	9,180	9,180	In house, Grant or Loan	0
Spring Street, (E3-305 to E3-183)	44,100	44,100	In house, Grant or Loan	0
Wastewater Plant Generator	90,000	90,000	In house, Grant or Loan	0

VI. COPIES OF SUPPORTING DOCUMENTATION		
All regional planning agencies must provide copies of the supporting documentation listed below. Copies should be attached to this form.		
1. Regional planning agency organization chart (including names of members)		
2. Sewer use ordinance		
3. Current user rate schedule		
4. Wastewater system maps- (a) One (1) up-to-date map, suitable for photocopying, should indicate the planning area boundary, service area boundary, watershed boundaries, county boundaries, adjacent populated places, cities and/or towns, surface waterbodies, drinking water supply areas; (b) Up-to-date map(s), suitable for photocopying, including locations of wastewater treatment facilities (including package treatment plant(s)), discharge location(s), collection lines (gravity, force main, interceptors), and pump stations.		
5. A list of wastewater systems studies since the last planning update (e.g., Infiltration& inflow reports, CSO reports, sewer system evaluation studies, on-site/cluster system reports, other relevant reports.)		
VII. CERTIFICATION. Signature requirements guarantee the validity of the data.		
This section must be certified by an elected official (e.g. Mayor, County Judge Executive) AND a designated official representing the regional planning agency (e.g. Kentucky licensed professional engineer employed by or under contract with the regional planning agency, Public Works Director, General Manager, Superintendent)		
Local Elected Official		
I certify that the information entered in this form is accurate to the best of my knowledge.		
Name: Gary Williamson		
Title: Mayor		
Signature: Date:		
Designated Official		
I certify that the information entered in this form is accurate to the best of my knowledge.		
Name: Rick Fletcher		
Title: General Manager		
Signature: Date:		
SEND COMPLETED FORMS TO:		
Division of Water Wastewater Planning Section 200 Fair Oaks Lane Frankfort, Kentucky 40601		