

Electric Plant Board

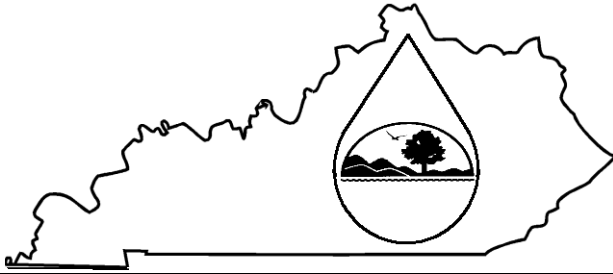
Water / Sewer Capital Forecast

FY '18 Five Year Forecast

Project Name	Department	Cost	Project Yr.	Description	Funded
East Front Street renovation	Water	50,000	FY '18	To replace all galvanized service lines and eliminate water loss.	No
Lions Lane Elevated Water tower	Water	350,000	FY '18	To rehab the elevated water tower on Lions Lane	Yes
Replace Echo Hills water lines	Water	50,000	FY '19	Replace water lines to Echo Hills apartment complex	No
Water Zoning Project	Water	100,000	FY '19	To zone our water system with Master Meters to help eliminate water loss.	No
Black Oak (Meadowbrook) Sewer Consolidation Project	Sewer	1,386,500	FY '19	Replace four package plants with a regional WWTP.	No
Holly Road line improvements	Water	50,000	FY '20	Eliminate creek crossings and improve pressure	No
3037 Collection extension	Sewer	1,000,000	FY '20	Extend the collection system out 3037 to the AA highway.	No
Black Oak Sewer Consolidation Project Phase II	Sewer	1,500,000	FY '22	Extend gravity lines for approximately 75 customers	No

The above projects are forecasted for the purpose of allocating funds or applying for SRF funds in the current or future funding cycles. These projects are above the normal maintenance program and must be forecasted as such.

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 if 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	Electric Plant Board of the City of Vanceburg
Mailing Address	P.O. Box 489
City, State, Zip Code	Vanceburg, Kentucky 41179
Contact person	William T. Stone
Title	Superintendent of Utilities
Telephone number	(606) 796-2641
Physical Location (if different from mailing address; not P.O. Box)	191 Front Street, Vanceburg, Kentucky 41179
Email Address	epb_billtom_stone@hotmail.com
Fax number	606-796-6311
KPDES and/or KISOP Number	KY0021512
Name of watershed(s) within the planning area (Hydrological Unit Code [HUC] 11)	Ohio River, Near Vanceburg, Kentucky 05090201070 Salk Lick Creek, Near Vanceburg, Kentucky 05090201080
List waterbodies within the planning area that are on the 303(d) list of waters not supporting one or more designated uses reported in the most recent Integrated Report to Congress on Water Quality in Kentucky	Salk Lick Creek 0.5 to 5.5

2. Discharge Information. Facilities may have multiple discharge types (e.g., discharge to another facility, subsurface discharge, outfall to surface waters, reuse). Additionally, one or more facilities may discharge to the facility. Please review and enter discharge information carefully. If multiple discharges apply, enter percentages which must add to up 100%.

Discharge Type	Outfall to surface waters
Name of receiving water(s)	Ohio River
Milepoint or Latitude & Longitude	602.9
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.	N/A
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).)	N/A

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/l<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.	
<input checked="" type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary
<input type="checkbox"/> Advanced Primary	<input type="checkbox"/> Advanced
<input type="checkbox"/> Other Describe:	<input type="checkbox"/> Other Describe:
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).

<u>Facility Type</u>	<u>Present</u>	<u>Projected</u>
Treatment Plant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Combined Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Separated Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

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.

	<u>Present</u>	<u>Projected in 10 Years</u>		
a. Design flow rate	0.410	0.410		Units (mgd) mgd
	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>	
b. Annual average daily flow rate	0.303	0.209	0.262	Units (mgd) mgd
	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>	
c. Maximum/Peak daily flow rate	0.989	1.060	1.072	Units (mgd) mgd
d. Average daily flow projected in 10 years		.175		Units (mgd) mgd

e. Average Inflow and Infiltration. Estimates should be based on most recent data		0.141	Units (mgd) mgd
		Present	Projected in 10 years
f	Residential flow contribution (mgd)	<u>0.262</u>	<u>0.175</u>
	Commercial/industrial flow contribution(mgd) (Projected calculations should be based on: 1,000 to 1,500 gallons per day/acre)	0	0
	Population served (Calculations should be based on: Census data specific to the service area or No. of Accounts X 3)	2,235	2,500
	Unserviced population in the planning area	0	0

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	<u>30 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Total Suspended Solids (TSS; mg/l)	<u>30 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Ammonia Nitrogen (mg/l) (Summer and Winter)	<u>20 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Dissolved Oxygen (mg/l)	<u>N/A</u>	<u>N/A</u>	<u>2 mg/l</u>
Fecal Coliform (colonies/100 ml)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<i>Escherichia Coli</i> (colonies/100 ml)	<u>130 colonies/100 ml</u>	<u>N/A</u>	<u>N/A</u>
pH (standard units)	<u>N/A</u>	<u>9.0</u>	<u>6.0</u>
Total Residual Chlorine (mg/l)	<u>N/A</u>	<u>0.019 mg/1</u>	<u>NA</u>
Phosphorus (Total; mg/l)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Total Nitrogen (mg/l)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Other (Indicate):	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
7. Pretreatment. Does the wastewater system have pretreatment program? (Circle One)		Yes	No

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	Electric Plant Board of the City of Vanceburg
Mailing Address	P.O. Box 489
City, State, Zip Code	Vanceburg, Kentucky 41179
Contact person	William T. Stone
Title	Superintendent of Utilities
Telephone number	(606) 796-2641
Physical Location (if different from mailing address; not P.O. Box)	191 Front Street, Vanceburg, Kentucky 41179
Email Address	epb_billtom_stone@hotmail.com
Fax number	606-796-6311
KPDES and/or KISOP Number	KY0021512
Name of watershed(s) within the planning area (Hydrological Unit Code [HUC] 11)	Ohio River, Near Vanceburg, Kentucky 05090201070 Salk Lick Creek, Near Vanceburg, Kentucky 05090201080
List waterbodies within the planning area that are on the 303(d) list of waters not supporting one or more designated uses reported in the most recent Integrated Report to Congress on Water Quality in Kentucky	Salk Lick Creek 0.5 to 5.5
2. Discharge Information. Facilities may have multiple discharge types (e.g., discharge to another facility, subsurface discharge, outfall to surface waters, reuse). Additionally, one or more facilities may discharge to the facility. Please review and enter discharge information carefully. If multiple discharges apply, enter percentages which must add to up 100%.	
Discharge Type	Outfall to surface waters
Name of receiving water(s)	Ohio River
Milepoint or Latitude & Longitude	602.9
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.	N/A
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).)	N/A

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/l<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.	
<input checked="" type="checkbox"/> Primary	<input checked="" type="checkbox"/> Secondary
<input type="checkbox"/> Advanced Primary	<input type="checkbox"/> Advanced
<input type="checkbox"/> Other Describe:	<input type="checkbox"/> Other Describe:
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).

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	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

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	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>	
b. Annual average daily flow rate	0.303	0.209	0.262	Units (mgd) mgd
	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>	
c. Maximum/Peak daily flow rate	0.989	1.060	1.072	Units (mgd) mgd
d. Average daily flow projected in 10 years		.175		Units (mgd) mgd

e. Average Inflow and Infiltration. Estimates should be based on most recent data		0.141	Units (mgd) mgd
		<u>Present</u>	<u>Projected in 10 years</u>
f	Residential flow contribution (mgd)	<u>0.262</u>	<u>0.175</u>
	Commercial/industrial flow contribution(mgd) (Projected calculations should be based on: 1,000 to 1,500 gallons per day/acre)	0	0
	Population served (Calculations should be based on: Census data specific to the service area or No. of Accounts X 3)	2,235	2,500
	Unsewered population in the planning area	0	0

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
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Ammonia Nitrogen (mg/l) (Summer and Winter)	<u>20 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Dissolved Oxygen (mg/l)	<u>N/A</u>	<u>N/A</u>	<u>2 mg/l</u>
Fecal Coliform (colonies/100 ml)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<i>Escherichia Coli</i> (colonies/100 ml)	<u>130 colonies/100 ml</u>	<u>N/A</u>	<u>N/A</u>
pH (standard units)	<u>N/A</u>	<u>9.0</u>	<u>6.0</u>
Total Residual Chlorine (mg/l)	<u>N/A</u>	<u>0.019 mg/1</u>	<u>NA</u>
Phosphorus (Total; mg/l)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Total Nitrogen (mg/l)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Other (Indicate):	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

7. Pretreatment. Does the wastewater system have pretreatment program? (Circle One)	Yes	No
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KPDES and/or KISOP Number	KY0021512
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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).)	N/A

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What levels of treatment are provided? Check all that apply.	
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<input type="checkbox"/> Other Describe:	<input type="checkbox"/> Other Describe:
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).

<u>Facility Type</u>	<u>Present</u>	<u>Projected</u>
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Combined Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Separated Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

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.

	<u>Present</u>	<u>Projected in 10 Years</u>		
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	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>	
b. Annual average daily flow rate	0.303	0.209	0.262	Units (mgd) mgd
	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>	
c. Maximum/Peak daily flow rate	0.989	1.060	1.072	Units (mgd) mgd
d. Average daily flow projected in 10 years		.175		Units (mgd) mgd

e. Average Inflow and Infiltration. Estimates should be based on most recent data		0.141	Units (mgd) mgd
		<u>Present</u>	<u>Projected in 10 years</u>
f	Residential flow contribution (mgd)	<u>0.262</u>	<u>0.175</u>
	Commercial/industrial flow contribution(mgd) (Projected calculations should be based on: 1,000 to 1,500 gallons per day/acre)	0	0
	Population served (Calculations should be based on: Census data specific to the service area or No. of Accounts X 3)	2,235	2,500
	Unsewered population in the planning area	0	0

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	<u>30 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Total Suspended Solids (TSS; mg/l)	<u>30 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Ammonia Nitrogen (mg/l) (Summer and Winter)	<u>20 mg/l</u>	<u>N/A</u>	<u>N/A</u>
Dissolved Oxygen (mg/l)	<u>N/A</u>	<u>N/A</u>	<u>2 mg/l</u>
Fecal Coliform (colonies/100 ml)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<i>Escherichia Coli</i> (colonies/100 ml)	<u>130 colonies/100 ml</u>	<u>N/A</u>	<u>N/A</u>
pH (standard units)	<u>N/A</u>	<u>9.0</u>	<u>6.0</u>
Total Residual Chlorine (mg/l)	<u>N/A</u>	<u>0.019 mg/1</u>	<u>NA</u>
Phosphorus (Total; mg/l)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Total Nitrogen (mg/l)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Other (Indicate):	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

7. Pretreatment. Does the wastewater system have pretreatment program? (Circle One)	Yes	No
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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. Current Fiscal Year and First Month of the Fiscal Year	<u>Year</u>		<u>Month</u>			
	\$279,405		\$32,687			
2. Median Household Income (MHI) of the Service Area	<u>Amount (\$)</u>					
	\$15,938					
3. Current User Charges Per Month (per 4,000 gallons)	<u>Amount (\$)</u>					
	<u>Residential</u>			<u>Commercial/Industrial</u>		
	\$30.13			\$30.13		
4. Projected User Charges Per Month Over Next two (2) Years (per 4,000 gallons)	<u>Amount (\$)</u>					
	<u>Residential</u>			<u>Commercial/Industrial</u>		
	\$33.14			\$33.14		
5. Annual Revenues	Enter Known Future Changes in Revenues (Enter amounts in current fiscal year dollars)					
	<u>Current Year</u>	<u>Year 6/13</u>	<u>Year 6/14</u>	<u>Year 6/15</u>	<u>Year 6/16</u>	<u>Year 6/17</u>
Total retail user charges	449,400	471,870	495,463	520,236	525,439	530,693
Total wholesale user charges	0	0	0	0	0	0
Interest earned	1,154	1,154	1,154	1,154	1,154	1,154
Funds drawn from reserves	0	0	0	0	0	0
Other revenues (e.g., tap-on fees; impact fees, etc.)	0	0	0	0	0	0
Total	450,554	473,024	496,617	521,390	526,593	531,847
6. Annual Expenses	Enter Known Future Changes in Expenses (Enter amounts in current fiscal year dollars)					
	<u>Current Year</u>	<u>Year 6/13</u>	<u>Year 6/14</u>	<u>Year 6/15</u>	<u>Year 6/16</u>	<u>Year 8/16</u>
Salaries, wages, benefits	143,196	150,355	157,873	165,767	174,055	182,757
Supplies, equipment, chemicals	33,737	34,566	35,949	37,387	38,882	40,437
Repairs and parts	96,963	100,841	104,875	109,070	113,432	117,970
Utilities (electric, gas, water)	<u>Electric</u>	<u>Electric</u>	<u>Electric</u>	<u>Electric</u>	<u>Electric</u>	<u>Electric</u>
	91,776	91,776	91,776	91,776	91,776	91,776
	<u>Water</u>	<u>Water</u>	<u>Water</u>	<u>Water</u>	<u>Water</u>	<u>Water</u>
	<u>Gas</u>	<u>Gas</u>	<u>Gas</u>	<u>Gas</u>	<u>Gas</u>	<u>Gas</u>
	0	0	0	0	0	0
Payments to other facilities	0	0	0	0	0	0
Funds added to reserves	0	0	0	0	0	0
Debt service	33,996	33,996	47,996	114,203	114,203	114,203
Other expenses	25,568	27,365	28,185	29,031	29,902	30,799
Total	425,736	438,900	466,655	547,234	562,253	577,944

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 Condition Assessment

<u>Rating</u>	<u>Remaining Useful Life</u>	<u>Maintenance Level</u>
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 Performance Assessment

<u>Rating</u>	<u>Description</u>
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 Reliability Assessment

<u>Rating</u>	<u>Remaining Life</u>	<u>Frequency of Failure</u>
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

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

<u>Rating</u>	<u>Description</u>	<u>Percentage (%) Affected</u>	<u>Level</u>
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 of Failure

<u>Rating</u>	<u>Percentage (%) of Effective Life Consumed</u>
1	20%
2	40%
3	60%
4	80%
5	100%

c. Current Redundancy Assessment

<u>Rating</u>	<u>Level of Redundancy</u>	<u>Reduce Probability of Failure by:</u>
1	50% Backup	50%
2	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 Strategies

<u>Option</u>	<u>Description</u>	<u>Type</u>
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 Strategy

<u>Option</u>	<u>Maintenance Tactic</u>
1	PM - Preventive Maintenance
2	CBM - Condition based maintenance
3	UBM - Usage based maintenance
4	RTF - Run to Failure
5	CM - Corrective Maintenance

Asset Inventory Table Instructions:

Putting together the inventory requires organization of assets and decisions regarding what level of asset should be included. This format allows for any level of detail desired, and is capable of classifying a great deal of information about the assets. Key points are to (1) organize the asset inventory from large to small units; (2) gather information and insert into the appropriate categories; (3) after basic hierarchy is established, additional information can be added as it is obtained (Refer to the table of Examples of Asset Categories and Category Hierarchy).

List as many assets within each categorized table as you can and as many characteristics of each asset. Characteristics will vary by asset type. Use the assessment and strategy ratings defined above while taking into account the current condition of each asset, its service history, and your experience based on the characteristics of your system (e.g., weather conditions, operation and maintenance routines). Get the best information you can, but use estimates if you need to. For the collection system tables (Tables 4 through 7), grouping of collection lines is recommended. For example, if collection lines were put into place in the same area during the same period of time and are composed of the same diameter and material, then enter the total linear footage of the same group instead of segmenting them (e.g., downtown, 10,000 feet, 8 inch diameter, Cast Iron, circa 1950).

Examples of Asset Categories and Category Hierarchy

Asset Categories	Asset Category Hierarchy
Headworks	Screening- Bar Screens, Screens
	Grit Removal- Blower, Auger, Grit Pumps, Pipes/Valves
	Electrical- Motor Control
Raw Sewage Pumping	Pumps- Pump #1, Pump #2, Pipes/Valves
	Electrical- Motor Control Center, Generator
	Instrumentation- Flow Meter, Level Sensors
Pump Stations	
Building and Grounds	
Panels- Alarm/Electrical	
Collection Structure	Manholes- Grinder Pumps
Collection Pipe (Ductile Iron, Cast Iron, Steel, RCP, PCCP, Brick, Vetrified Clay Pipe [VCP], Polyvinyl Chloride [PVC], High-density Polyethylene [HDPE])	Gravity
	Forcemain- Air-Relief Valves
Collection Pump Station	Pumps- Pump 1,2,3, etc., Valve and Piping
	Instrumentation- Flow Meter
	Electrical- Motor Control, Standby Generator
Treatment Unit Processes	

4. Collection System Gravity Pipes and Manholes- Existing															
Description of Area	Description of Manholes (diameter, material, lid type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
						Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/Maintenance Date	Estimated Cost of Renewal/Maintenance Option
Apple Tree	4' Diameter Brick, Cast Iron Lids	2318	8"	PVC	1978	4	4	3	1	1	1	2	5	2078	\$1,000,000
Green Valley	3-4' Diameter Precast, Cast Iron	1100	8"	PVC	1984	4	4	3	1	1	1	2	5	2084	\$750,000
McDonalds	4-4' Diameter Precast, Cast Iron Lids	968	8"	PVC	1998	4	4	3	1	1	1	2	5	2098	\$1,000,000
NAPA	13-4' Diameter Precast, Cast Iron Lids	2433	6", 8", 10"	PVC	1989	4	4	3	3	1	1	2	5	2089	\$3,000,000
		138	6"	PVC	1989	4	4	3	3	1	1	2	5	2089	
		897	8"	PVC	1989	4	4	3	3	1	1	2	5	2089	
		1398	10"	PVC	1989	4	4	3	3	1	1	2	5	2089	
High School	24-4' Diameter Precast, Cast Iron Lids	7684	8", 6"	PVC, VCP	1965	4	4	3	2	1	1	2	5	2040	\$5,000,000
		6152	8"	PVC	1965	4	4	3	2	1	1	2	5	2040	
		827	8"	VCP	1965	3	3	3	2	1	1	2	5	2040	
		636	6"	VCP	1965	3	3	3	2	1	1	2	5	2040	
		11	6"	PVC	1965	4	4	3	2	1	1	2	5	2040	
River Road	6-4' Diameter Precast, Cast Iron Lid	1127	6"	RCP, VCP, CAS, PVC	1958	4	4	3	1	1	1	2	5	2058	\$1,000,000
		203	6"	RCP	1958	4	4	3	1	1	1	2	5	2058	
		182	6"	VCP	1958	4	4	3	1	1	1	2	5	2058	
		133	6"	CAS	1958	4	4	3	1	1	1	2	5	2058	
		609	6"	PVC	1958	4	4	3	1	1	1	2	5	2058	
Halbert	47-4' Diameter Precast, Cast Iron Lids	11102	6", 8", 10"	DIP, VCP, CAS, PVC	1964	3	3	3	5	1	1	4	5	2013	\$10,000,000
		413	8"	DIP	1964	2	2	3	5	1	1	6	5	2013	
		4265	8"	VCP	1964	3	3	3	5	1	1	5	5	2013	
		265	6"	VCP	1964	3	3	3	5	1	1	5	5	2013	

4. Collection System Gravity Pipes and Manholes- Existing CONTINUED3

Description of Area	Description of Manholes (diameter, material, lid type)	3Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			Estimated Cost of Renewal/Maintenance Option
						Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/Maintenance Date	
Halbert (Continued)		259	8"	CAS	1964	3	3	3	5	1	1	2	5	2032	
		3192	8"	PVC	1964	3	3	3	5	1	1	2	5	2032	
		292	6"	PVC	1964	3	3	3	5	1	1	2	5	2032	
		2416	10"	VCP	1964	3	3	3	5	1	1	5	5	2013	
Superintendent	61-4" Diameter Precast Cast Iron Lid	8521	6", 8", 10", 12"	PVC, VCP, CAS	1964	3	3	3	6	1	1	4	5	2013	\$10,000,000
		851	6"	PVC	1964	3	3	3	6	1	1	2	5	2032	
		77	6"	VCP	1964	3	3	3	6	1	1	2	5	2032	
		3,000	8"	PVC	1964	3	3	3	6	1	1	2	5	2032	
		2,359	8"	VCP	1964	3	3	3	6	1	1	6	5	2013	
		913	10"	VCP	1964	3	3	3	6	1	1	4	5	2032	
		26	10"	CAS	1964	3	3	3	6	1	1	4	5	2032	
		1295	12"	VCP	1964	3	3	3	6	1	1	4	5	2032	
Front Street	31-4" Diameter Precast (Cast Iron Lids)	71430	6", 8", 10", 12", 18", 24"	VCP, PVC, DIP	1964	3	3	3	5	1	1	5	5	2013	\$10,000,000
		223	6"	VCP	1964	3	3	3	5	1	1	5	5	2013	
		2929	8"	VCP	1964	3	3	3	5	1	1	5	5	2013	
		167	8"	PVC	1964	3	3	3	5	1	1	5	5	2013	
		1368	10"	VCP	1964	3	3	3	5	1	1	5	5	2013	
		766	12"	VCP	1964	3	3	3	5	1	1	5	5	2013	
		1026	18"	VCP	1964	3	3	3	5	1	1	5	5	2013	
		131	24"	PVC	1964	3	3	3	5	1	1	5	5	2013	
		533	24"	VCP	1964	3	3	3	5	1	1	5	5	2013	

4. Collection System Gravity Pipes and Manholes- Existing CONTINUED															
Description of Area	Description of Manholes (diameter, material, lid type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
						Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/Maintenance Date	Estimated Cost of Renewal/Maintenance Option
Second Street	30-4' Diameter Precast (Cast Iron Lids)	7253	6", 8", 12", 18"	VCP, PVC, DIP	1964	3	3	3	9	1	1	7	5	2013	\$15,000,000
		248	6"	CLAY	1964	3	3	3	9	1	1	7	5	2013	
		2452	8"	CLAY	1964	3	3	3	9	1	1	7	5	2013	
		48	8"	DIP	1964	3	3	3	9	1	1	7	5	2013	
		2483	12"	CLAY	1964	3	3	3	9	1	1	7	5	2013	
		644	12"	DIP	1964	3	3	3	9	1	1	7	5	2013	
		1378	18"	CLAY	1964	3	3	3	9	1	1	7	5	2013	

5. Collection System Gravity Pipes and Manholes- 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; Abandonment- The 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 existing asset is considered obsolete and is demolished, and a new asset is constructed on the same site. Expansion- Increasing the service area of an existing sewer system.

Proposed Projects	Project Description/ Description of Area	Number of New Manholes	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Planned	If Known	
							Manufacturer's Predicted Life	Estimated Project Cost
CSO RENOVATE	SEE ATTACHED EXHIBIT "A"	SEE ATTACHED EXHIBIT "A"	SEE ATTACHED EXHIBIT "A"	SEE ATTACHED EXHIBIT "A"	SEE ATTACHED EXHIBIT "A"	SEE ATTACHED EXHIBIT "A"		
VANCEBURG-MEADOWBROOK	SEE ATTACHED EXHIBIT "B"	SEE ATTACHED EXHIBIT "B"	SEE ATTACHED EXHIBIT "B"	SEE ATTACHED EXHIBIT "B"	SEE ATTACHED EXHIBIT "B"	SEE ATTACHED EXHIBIT "B"		

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

6. Pressure Line/Force Mains and Air-Release Valves – Existing															
Description of Area	Description of Air Release Valves (size, type)	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Installed	Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
						Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/ Maintenance Date	Estimated Cost of Renewal/ Maintenance Option
Front Street	N/A	473	6"	CIP	1964	3	4	3	5	4	1	2	5	2064	\$150,000
Second Street	N/A	721	8"	CIP	1964	3	4	3	8	4	1	2	5	2064	\$200,000
Superintendent	1 Valve	1156	6"	CIP	1964	3	4	3	7	4	1	2	5	2064	\$300,000
Halbert Avenue	N/A	432	4"	CIP	1964	3	4	3	6	4	1	2	5	2064	\$150,000
Appletree	N/A	2880	4"	PVC	1980	4	4	2	2	2	1	2	5	2080	\$250,000
McDonalds	N/A	590	4"	PVC	1992	4	4	4	2	2	1	2	5	2092	\$100,000
Church Station	N/A	210	2"	PVC	1990	3	4	3	1	2	1	2	5	2090	\$10,000
Bow Plant	4 Valves	3941	6"	PE	1992	4	4	3	2	3	1	2	5	2092	\$500,000
Bruce Street	N/A	380	2"	PE	1990	4	4	2	1	3	1	2	5	2090	\$20,000
Green Valley	N/A	1092	4"	PVC	1984	4	4	2	2	2	1	2	5	2084	\$250,000
Main Plant	N/A	285	10"	DIP	1992	4	4	4	9	2	1	2	5	2092	\$250,000
NAPA	N/A	3450	6"	PVC	1989	4	4	3	5	3	1	2	5	2089	\$200,000
Woodland Estates	N/A	680	2"	PE	1983	4	4	3	1	2	1	2	5	2083	\$10,000
Primary Care	N/A	60	2"	PE	1992	4	4	3	2	2	1	2	5	2092	\$20,000
River Road	N/A	300	3"	PVC	1975	4	4	3	2	2	1	2	5	2075	\$150,000
Route #8	N/A	395	2"	PVC	1990	4	4	3	1	2	1	2	5	2090	\$20,000

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 is being proposed or implemented; Abandonment- The 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 existing asset is considered obsolete and is demolished, and a new asset is constructed. Expansion- Increasing the service area of an existing sewer system.

Proposed Projects	Project Description/ Description of Area	Pipe Length (feet)	Pipe Size (Inches)	Pipe Material	Year Planned	If Known	
						Manufacturer's Predicted Life	Estimated Project Cost
NONE							

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

8. Pump Stations- Existing														
Project Description/ Pump Station Name	Type (e.g. submersible, Centrifugal, etc.)	Capacity (MGD)	Total Dynamic Head (feet)	Year Installed	Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
					Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/ Maintenance Date	Estimated Cost of Renewal/ Maintenance Option
Front Street	Centrifugal	288	19	2009	4	4	3	5	2	1	2	1	2054	\$100,000
Second Street	Centrifugal	.576	41	2009	4	4	2	8	2	1	2	1	2054	\$100,000
Superintendent	Centrifugal	.288	30	2009	4	4	2	7	2	1	2	1	2054	\$100,000
Halbert Avenue	Centrifugal	.180	40	2009	4	4	2	6	2	1	2	1	2054	\$100,000
Apple Tree	Submersible			1980	2	3	2	2	4	1	2	2	2025	\$100,000
McDonalds	Submersible			1992	3	3	3	2	3	1	2	2	2037	\$100,000
Church Station	Grinder	.047		1990	3	3	3	1	3	1	2	2	2035	\$5,000
Bow Plant	Submersible	.259	27.5	1991	3	3	3	2	3	1	2	2	2031	\$100,000
Bruce Street	Grinder	.047		1988	2	2	2	1	4	1	2	2	2033	\$5,000
Green Valley	Submersible	.129	56	2009	4	4	3	2	2	1	2	2	2054	\$100,000
Main Plant (Return)	Submersible	.576	18	2008	3	3	3	9	3	1	2	2	2053	\$100,000
NAPA	Submersible	.387	50	2009	4	4	3	5	2	1	2	2	2054	\$100,000
Woodland Estates	Grinder	0.47		1983	3	2	3	1	4	1	2	2	2023	\$5,000
Primary Care	Grinder	0.47		1992	3	3	3	2	4	1	2	2	2037	\$5,000
River Road	Submersible	.144	40	1996	3	3	3	2	3	1	2	2	2041	\$100,000
Route #8	Grinder	0.47		1988	2	2	2	1	4	1	2	2	2033	\$5,000

9. Pump Stations - 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; Abandonment- The asset will no longer be used or will be demolished in the future; Rehabilitation- Restoring or upgrading existing pump stations; Replacement- An existing asset is considered obsolete and is demolished, and a new asset is constructed; Process Improvement- Replacing pumps in a pump station; Expansion- Increasing the size of pumps; Instrumentation/ Electrical/ Laboratory- Adding new or modifying existing instrumentation systems (e.g., SCADA), electrical systems, or laboratory facilities at an existing asset of any type.

Proposed Projects	Pump Station Name	Type (e.g., submersible, centrifugal, etc.)	Capacity (MGD)	Total Dynamic Head (feet)	Year Planned	If Known	
						Manufacturer's Predicted Life	Estimated Project Cost
NONE							

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

10. Treatment Units (Preliminary, Secondary, Disinfection, Advanced, Biosolids Handling)- Existing													
Treatment Units	Unit Process	No. of Units	Year Installed	Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
				Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	Renewal/ Maintenance Date	Estimated Cost of Renewal/ Maintenance Option
Preliminary	Bar Screen	2	1992	4	4	4	1	2	2	2	2	2092	\$2,000
	Comminutor	1	1992	4	4	3	1	4	1	2	1	2022	\$5,000
Secondary	Aerators	4	1992	3	4	3	8	3	1	2	1	2022	\$2,000,000
	Clarifiers	2	1992	3	4	3	8	3	1	2	1	2022	\$1,000,000
	Return Well	1	1992	3	4	2	9	3	1	2	2	2022	\$1,000,000
Disinfection	Chlorinators	1	1992	4	4	2	6	3	1	2	2	2017	\$5,000
	Sulfurnator	1	1992	4	4	3	6	3	1	2	2	2017	\$5,000
Bio solids handling	Aerobic Digester	1	1992	4	4	4	6	3	1	2	1	2022	\$1,000,000
	Drying Beds	3	1992	4	3	4	6	2	1	2	2	2030	\$500,000

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; Abandonment- - All unit processes that make up the facility 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 Level of Treatment- Improving the degree of treatment. 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 represents higher-quality effluent than secondary effluent without 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 obsolete and is demolished, and a new facility is 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 treatment, expand the service area, or make a similar 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 at an existing facility of any type.

Proposed projects	Treatment Unit	No. of Units	Year Planned	If Known	
				Manufacturer's Predicted Life	Estimated Project Cost
VANCEBURG-MAIN SEWER PLANT	SEE ATTACHED EXHIBIT "C"	SEE ATTACHED EXHIBIT "C"	SEE ATTACHED EXHIBIT "C"		

Enter any additional Treatment Units information here:

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.
3. 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 over a projected 10-year period. Each project should include a project title, location, brief description, schedule and cost estimate. ***Each project cost estimate should provide the source of the estimate.**

Project Title	Location	Brief Description	Schedule (Estimated Start and End Date)	*Cost Estimate (\$)	Source
CSO PROJECT	SEE CLEAN WATER PROJECT PROFILE EXHIBIT "A"	SEE CLEAN WATER PROJECT PROFILE EXHIBIT "A"	START 09/2012 END 09/2013	\$5,400,000	GRANT/LOANS
VANCEBURG-MAIN SEWER PLANT	SEE ATTACHED EXHIBIT "C"	SEE ATTACHED EXHIBIT "C"	START FY2013 END 2015	\$1,500,000	GRANT/LOANS

V. FUNDING PLAN

This section of the report shall outline a funding plan, indicating sources of revenue from rate payers, grants, bonds, loans and other funding sources to finance projects. A five-year financial plan is required, but ten-year plans are recommended.

Project Title	Overall Project Budget (\$)	Available Funding Amount (\$)	Available Funding Source	Unfunded Amount (\$)
SEE EXHIBITS "A", "B" AND "C"	DETAILED IN ATTACHED EXHIBITS			

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: ANTHONY T. RUCKEL

Title: MAYOR

Signature: *Anthony T. Ruckel*

Date: 6-27-12

Designated Official

I certify that the information entered in this form is accurate to the best of my knowledge.

Name: WILLIAM T. STONE

Title: SUPERINTENDENT

Signature: *William T. Stone*

Date: 6-27-12

SEND COMPLETED FORMS TO:

Division of Water
Wastewater Planning Section
200 Fair Oaks Lane
Frankfort, Kentucky 40601

For additional information, call (502) 564-3410.