

**Community Investments Program
FY 2014 through FY 2018**

**Open Space Development
CIP #OS1002**

Project Description:

Designate and develop open space improvements within the City. Possible projects could include Helen Westburg Park, extend Greenway/Bikeway along Piles Fork Creek, comprehensive bike route plan, Central Downtown Bike/Pedestrian Greenway Park.

Project Justification:

Open space will be developed as a commitment from the half-cent Home Rule Sales Tax increase.

Project Capital Costs:

Budgeted FY 2014	425,213
Estimated FY 2015	108,000
Estimated FY 2016	108,000
Estimated FY 2017	108,000
Estimated FY 2018	0
Total Five-Year Costs	749,213
Prior Years Costs	80,769
Later Years Costs	0
Total Cost	\$829,982

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenues	\$500,032
Federal Aid, Grant	<u>\$329,950</u>

Total align="right">\$829,982

Operating Budget Impact:

This project is an open commitment that includes green space development. The actual development plans will transpire as an on-going planning process. Any possible budget impacts will be determined as the actual plans are derived.

**Brook Lane Footbridge
CIP #OS1103**

Project Description:

Replacement of the foot bridge located at the north end of Eason crossing the drainage ditch. This footbridge connects Eason to Brookline.

Project Justification:

The existing wooden footbridge structure had been in place for over 30 years. In the summer of 2012 staff deemed the existing structure unsafe for use. As this structure was severely dilapidated and beyond repair it was removed. At the request of Citizens living in the immediate area, staff recommends that this foot bridge be replaced.

Project Capital Costs

Budgeted FY 2014	41,880
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	41,880
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$41,880

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenues	<u>\$41,880</u>
---------------------------------	-----------------

Total align="right">\$41,880

Operating Budget Impact:

Replacement on the bridge reduces the risks of accident or injury associated with existing conditions. Fulfills requests of local residents.

**Community Investments Program
FY 2014 through FY 2018**

**Fire Station Relocation
CIP #PB0001**

Project Description:

To complete a building plan and site layout, develop a design, produce construction plans and specifications, obtain all necessary construction permits, and provide all necessary construction management assistance for a new public fire station.

Preliminary space requirements include 4,000 square feet of enclosed building to provide living space and office for fire fighters; a four bay 3,840 square foot garage for fire vehicles and 3,000 square feet of storage. The facilities shall include a hose drying tower, room for training, standby power and associated parking.

Project Justification:

The existing west side fire station, constructed in 1960 is currently operating beyond its designed capacity for both personnel and equipment. In recent years the unreinforced masonry facility has begun to show signs of structural and mechanical deterioration.

An engineering study conducted in the fall of 2009 revealed the existing facility is especially vulnerable to seismic activity, and apparatus would most likely become trapped in the event of an earthquake.

Illinois Department of Transportation development of the East-West Couple has caused increased traffic at the Walnut Street/Oakland Avenue intersection, and made apparatus egress difficult.

Improved access to travel routes will provide for safer and more efficient emergency response to residential areas on the west side of town.

Project Capital Costs:

Budgeted FY 2014	2,068,206
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	2,068,206
Prior Years Costs	1,680,526
Later Years Costs	0
Total Cost	\$3,748,732

Fund Source:

Fund Balance – General Revenues	\$ 755,822
Transfers from the General Fund	\$ 192,910
General Obligation Bonds	<u>\$ 2,800,000</u>

Total \$3,748,732

Operating Budget Impact:

Construction of the new facility will reduce the cost of curing current existing structural safety and cosmetic issues with existing buildings as well as reducing the cost of operation and maintenance. Doing it now as opposed to waiting allows the City to build at lower current costs verses potentially higher future costs. In addition financing is accomplished at historically low interest rates.

**Community Investments Program
FY 2014 through FY 2018**

**700 Block of South Illinois Avenue
CIP #PK0701**

Project Description:

The project includes a portion of purchased railroad right-of-way located on the west side of the tracks extending north from Mill Street to a point approximately 200 feet south of the center line of College Street be utilized to construct a parking lot.

Project Justification:

This parking lot provides additional parking for the downtown businesses.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	140,000
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	140,000
Prior Years Costs	41,122
Later Years Costs	0
Total Cost	\$181,122

Fund Source:

Parking Systems Operation Fund:

Fund Balance:

Service Charge, Parking Meters \$181,122

Total \$181,122

Operating Budget Impact:

Makes parking more convenient for customers of those businesses and should add to meter and fine revenue. Project construction in Fiscal Year 2015.

**Parking Lot #26 Improvements (Interfaith Center)
CIP #PK1001**

Project Description:

The project includes the reconstruction of an existing parking lot located north of Grand Avenue and East of Illinois Avenue, adjacent to the Interfaith Center.

Project Justification:

This parking lot was originally constructed in the mid 1990's as a temporary parking lot to meet the immediate needs of adjacent businesses. This parking lot is heavily used and is in poor condition; a permanent and proper parking lot needs to be constructed to adequately serve the needs of the public.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	7,800
Estimated FY 2016	83,000
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	90,800
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$90,800

Fund Source:

Parking Systems Operation Fund:

Fund Balance:

Service Charge, Parking Meters \$90,800

Total \$90,800

Operating Budget Impact:

Better and safer parking accommodation to those using this location. Project construction in Fiscal Years 2015 and 2016.

**Community Investments Program
FY 2014 through FY 2018**

**East/West Sanitary Sewer Between Schwartz Street
and College Street
CIP #SA0106**

Project Description:

Replace existing 8" sanitary sewer west of Oakland Avenue between Schwartz Street and College Street.

Project Justification:

Existing 8" sanitary sewer in need of repair and replacement.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	0
Estimated FY 2016	144,000
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	144,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$144,000

Fund Source:

Waterworks and Sewerage Fund:	
WasteWater System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$144,000</u>
Total	\$144,000

Operating Budget Impact:

The line replacement will prevent the cost of utilizing the sewer jet for maintaining flow as well as any excavation repairs necessary due to the old line. Maintenance cost savings is estimated to be approximately \$600 annually. Project construction completion and savings beginning in Fiscal Year 2016.

**Sanitary Sewer Rehabilitation Program
CIP #SA0901**

Project Description:

Annual Sewer Rehabilitation Program to maintain and improve the integrity of the sewer system and repair problem areas.

Project Justification:

Many sewers are in need of repair to improve pipe condition and reduce infiltration and inflow. In addition, the program would reduce blockage in the sewer lines causing customer problems and possible damage to homes.

Project Capital Costs:

Budgeted FY 2014	277,520
Estimated FY 2015	329,000
Estimated FY 2016	329,000
Estimated FY 2017	329,000
Estimated FY 2018	329,000
Total Five-Year Costs	1,593,520
Prior Years Costs	113,551
Later Years Costs	0
Total Cost	\$1,007,071

Fund Source:

Waterworks and Sewerage Fund:	
WasteWater System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$1,007,071</u>
Total	\$1,007,071

Operating Budget Impact:

This on-going improvement program is providing monies in future years which will be used as each line is identified. The completion of this project will reduce routine maintenance and intermittent service calls.

**Community Investments Program
FY 2014 through FY 2018**

**Sanitary Sewer Inflow and Infiltration Study
CIP #SA1301**

Project Description:

Evaluate the City's Sanitary Sewer System to identify and correct sources of inflow and infiltration.

Project Justification:

The City's two wastewater treatment plants experience significant flow increases during rain events. These increases in flow are a direct result of rain and storm runoff waters entering the sanitary sewer system. An ongoing sanitary sewer inflow and infiltration study will aid the City in identifying major sources of inflow and infiltration and allow them to be corrected thereby reducing operating costs for the wastewater treatment plant.

Project Capital Costs:

Budgeted FY 2014	210,320
Estimated FY 2015	194,000
Estimated FY 2016	199,000
Estimated FY 2017	134,000
Estimated FY 2018	84,000
Total Five-Year Costs	821,320
Prior Years Costs	173,226
Later Years Costs	0
Total Cost	\$994,546

Fund Source:

Waterworks and Sewerage Fund:	
WasteWater System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$994,546</u>
Total	\$994,546

Operating Budget Impact:

This will identify problem areas enabling proper repair/resolution of existing and potential problems.

**Haake Jenkins Sanitary Sewer
CIP #SA1302**

Project Description:

Install approximately 800 feet of gravity sanitary sewer to eliminate the Haake Jenkins Lift Station.

Project Justification:

The Haake Jenkins lift station is in need of extensive rehabilitation, including the installation of new pumps, piping, rails and control systems. Staff has concluded that this lift station can be eliminated by installing gravity sewer to the existing and neighboring Golf Course lift station. This will eliminate ongoing electrical and maintenances costs associated with the operation of the Haake Jenkins lift station.

Project Capital Costs:

Budgeted FY 2014	79,620
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	79,620
Prior Years Costs	3,625
Later Years Costs	0
Total Cost	\$83,245

Fund Source:

Waterworks and Sewerage Fund:	
WasteWater System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$83,245</u>
Total	\$83,245

Operating Budget Impact: Simplifies overall operation reducing ongoing repair and operating and possible future replacement costs. Project completion expected in Fiscal Year 2014.

**Community Investments Program
FY 2014 through FY 2018**

**Replace Corrugated Metal Pipes in Southwest
Quadrant
CIP #SS9902**

Project Description:

The area for this study is bounded by Sunset Drive on the north, Chautauqua Street on the south, Dixon Street on the east and Little Crab Orchard Creek on the west. When this section of Carbondale was developed, corrugated metal storm drainage systems were often used. These pipes are starting to deteriorate and fail. This study would identify the areas where corrugated metal pipes were used and note the areas that are failing. This information will provide the necessary data for establishing program for repairs.

Project Justification:

To maintain a satisfactory storm drainage system.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	24,000
Estimated FY 2018	306,000
Total Five-Year Costs	330,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$330,000

Fund Source:

Motor Fuel Tax Fund:	
State Aid or Grant	<u>\$330,000</u>
Total	\$330,000

Operating Budget Impact:

Completion scheduled in Fiscal Year 2018. No budgetary impact in Fiscal Year 2014.

**Cherry Street/Elm Street Storm Sewer Interceptor
Replacement
CIP #SS1002**

Project Description:

Replacement of the storm sewers from the West Cherry Street/University Avenue area to the East Elm Street/Marion Street area.

Project Justification:

The Cherry Street/University Avenue/Illinois Avenue is a low point and collector areas for storm water runoff. The storm water from this area is conveyed under the railroad tracks to East Elm Street wherein it connects to other storm sewers that take the water to Piles Fork Creek. This area on the West side of the railroad tracts has experienced flooding for decades and warrants further study for possible storm sewer replacements to aid in alleviating the flooding problems.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	25,000
Estimated FY 2018	340,000
Total Five-Year Costs	365,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$365,000

Fund Source:

Local Improvement Fund:	
Fund Balance - General Revenues	<u>\$365,000</u>
Total	\$365,000

Operating Budget Impact:

To protect against future flooding events. No budgetary impact in Fiscal Year 2014.

**Community Investments Program
FY 2014 through FY 2018**

**Schwartz Street Improvements
(Oakland to Eason)
CIP #ST8705**

Project Description:

This project consists of reconstructing Schwartz Street between Oakland Avenue and Eason Drive with new curb and gutters, inlets, storm sewers, sidewalks and appurtenances.

Project Justification:

This project will provide better access to the area and eliminate the open ditches.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	0
Estimated FY 2016	20,000
Estimated FY 2017	463,500
Estimated FY 2018	0
Total Five-Year Costs	483,500
Prior Years Costs	26,166
Later Years Costs	0
Total Cost	\$509,666

Fund Source:

Motor Fuel Tax Fund:	
State Aid or Grant	\$21,500
Local Improvement Fund:	
Fund Balance - General Revenues	<u>\$488,166</u>
Total	\$509,666

Operating Budget Impact:

Cuts down on routine maintenance and risk of injury and property damage. Minimal impact in Fiscal Year 2014.

**Street Patching Program
CIP #ST1201**

Project Description:

This project will provide for patching of roadways throughout the City.

Project Justification:

This project will allow a proactive and systematic approach to patching streets and potholes around the City.

Project Capital Costs:

Budgeted FY 2014	3,440
Estimated FY 2015	0
Estimated FY 2016	3,500
Estimated FY 2017	0
Estimated FY 2018	3,500
Total Five-Year Costs	10,440
Prior Years Costs	163,504
Later Years Costs	0
Total Cost	\$173,944

Fund Source:

Local Improvement Fund:	
Fund Balance - General Revenues	<u>\$173,944</u>
Total	\$173,944

Operating Budget Impact:

Reduces risk of injury and property damage.

**Community Investments Program
FY 2014 through FY 2018**

**Superblock Area Sidewalk Improvements
CIP#SW1302**

Project Description:

Evaluate the needs of pedestrians in and around the superblock area, which is bounded by Lewis Lane, E. Walnut Street, Giant City Road, and Grand Avenue. Plan and construct sidewalk improvements as necessary to meet these needs.

Project Justification:

The superblock area has been developed over the past decade and is now a thriving community complex that includes the Superblock Recreational Fields, Carbondale Community High School, Carbondale Middle School, and Lewis Elementary School; it will also be the site of the new Carbondale Park District Water Park. The need for adequate and safe pedestrian routes has been expressed by the community and needs to be evaluated.

Project Capital Costs:

Budgeted FY 2014	199,540
Estimated FY 2015	88,950
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	288,490
Prior Years Costs	6,805
Later Years Costs	0
Total Cost	\$295,295

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenues	\$115,857
State Aid	<u>\$179,438</u>

Total \$295,295

Operating Budget Impact:

Cuts down on routine maintenance and risk of injury and property damage. Scheduled completion for Fiscal Year 2015 when anticipated maintenance savings should begin.

**Sidewalk Improvements
CIP#SW1401**

Project Description:

This project has four components:

1. Repair dangerous and/or deteriorated sidewalks throughout the City.
2. Improve sidewalks in the downtown area.
3. Work with the Partnership for Disability Issues organization to create sidewalk routes throughout the City for the physically challenged.
4. Construct new sidewalks where missing sections of walk creates a gap in the sidewalk flow.

Project Justification:

Remove hazardous situations and make the areas more aesthetically pleasing.

Project Capital Costs:

Budgeted FY 2014	100,000
Estimated FY 2015	100,000
Estimated FY 2016	100,000
Estimated FY 2017	100,000
Estimated FY 2018	100,000
Total Five-Year Costs	500,000
Prior Years Costs	179,391
Later Years Costs	0
Total Cost	\$679,391

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenues	<u>\$679,391</u>
---------------------------------	------------------

Total \$679,391

Operating Budget Impact:

Ongoing program with annual costs of \$100,000 per year.

**Community Investments Program
FY 2014 through FY 2018**

**Mill Street Water Main
CIP #WS0201**

Project Description:

This project replaces 2,900 feet of 6" water main on Mill Street between University Avenue and Oakland Avenue.

Project Justification:

This eliminates a water line that has had high maintenance costs and disruption of service.

Project Capital Costs:

Budgeted FY 2014	71,280
Estimated FY 2015	880,000
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	951,280
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$951,280

Fund Source:

Waterworks and Sewerage Fund:
Water System Fund Balance:
 Utility Fund Revenues, Water &
 Sewer User Fees \$951,280

Total \$951,280

Operating Budget Impact:

This has been budgeted each year since FY 2002 and maintenance costs and service disruptions are high. This program will mitigate that.

**Water Storage Facility – Phase II
CIP #WS0202**

Project Description:

To design and construct a new water storage facility on Park Street and close and abandon the below ground water wells at the old water treatment plant on Wall Street.

Project Justification:

In 1998 the Illinois Environmental Protection Agency noted that the City of Carbondale had below ground water storage facilities, clear wells, that were in the flood plain. These clear wells are located at the old water treatment plant on Wall Street. The clear wells had overflow pipes that during a very major flooding condition could allow inflow of non-potable water. The City installed valves on the overflows and is monitoring the stream for high water conditions, which is satisfactory for the present. However, as a part of the agreement the City is to remove these structures in a reasonable period of time.

Project Capital Costs:

Budgeted FY 2014	1,981,222
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	1,981,222
Prior Years Costs	1,857,035
Later Years Costs	0
Total Cost	\$3,838,257

Fund Source:

Waterworks and Sewerage Fund:
 Grant \$906,234
 Loan \$2,735,046
Water System Fund Balance:
 Utility Fund Revenues, Water &
 Sewer User Fees \$196,977

Total \$3,838,257

Operating Budget Impact:

To meet EPA compliance for flood mitigation. Project completion scheduled this budget year.

**Community Investments Program
FY 2014 through FY 2018**

**Schwartz Street Waterline (Oakland to Eason)
Orchard Drive Water Line Replacement
(400 Block to Walnut Street)
CIP #WS0308**

Project Description:

Replace approximately 850 feet of water main on Schwartz Street from Oakland Avenue to Eason Drive and replace approximately 1,100 feet of water main on Orchard Drive from the 400 Block to Walnut Street.

Project Justification:

Existing water lines needs to be replaced prior to the proposed street construction project (ST8705).

Project Capital Costs:

Budgeted FY 2014	168,520
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	168,520
Prior Years Costs	3,146
Later Years Costs	0
Total Cost	\$171,666

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$171,666</u>
Total	\$171,666

Operating Budget Impact:

Project completion scheduled this budget year.

**Crab Orchard Water District Improvements
CIP #WS0803**

Project Description:

Improve areas served by the former Crab Orchard Water District by making connections to existing city Water lines where available and replace water lines as described in agreement with the former Crab Orchard Water District.

Project Justification:

Many of the lines are in poor condition and need to be replaced.

Project Capital Costs:

Budgeted FY 2014	436,600
Estimated FY 2015	388,000
Estimated FY 2016	468,000
Estimated FY 2017	648,000
Estimated FY 2018	468,000
Total Five-Year Costs	2,408,600
Prior Years Costs	823,212
Later Years Costs	0
Total Cost	\$3,231,812

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$3,231,812</u>
Total	\$3,231,812

Operating Budget Impact:

It is anticipated that maintenance will not be necessary on the new lines for approximately the first 10 years.

**Community Investments Program
FY 2014 through FY 2018**

**Sycamore Street Water Line Replacement
(From Poplar Street to Oakland Avenue)
CIP #WS0905**

Project Description:

Replace 1,500 feet of ten (10) inch water line on Sycamore Street.

Project Justification:

The Sycamore Street water line (Poplar Street to Oakland Avenue) broke several times. The line needs to be replaced.

Project Capital Costs:

Budgeted FY 2014	277,760
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	277,760
Prior Years Costs	16,510
Later Years Costs	0
Total Cost	\$294,270

Fund Source:

Waterworks and Sewerage Fund:

Water System Fund Balance:

Utility Fund Revenues, Water & Sewer User Fees	<u>\$294,270</u>
---	------------------

Total	\$294,270
--------------	-----------

Operating Budget Impact:

The estimated savings from repair expenses is approximately \$10,000 annually.

**Cedar Lake
Spillway Repair and Gabion Installation
CIP #WS1002**

Project Description:

Repair the damaged/displaced portion of the riprap spillway with gabions.

Project Justification:

Due to heavy rains in the spring of 2008, the riprap portion of the spillway suffered heavy damage/displacement. The spillway needs to be repaired to prevent further degradation of the gabion portion of the spillway.

Project Capital Costs:

Budgeted FY 2014	27,520
Estimated FY 2015	344,000
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	371,520
Prior Years Costs	4,247
Later Years Costs	0
Total Cost	\$375,767

Fund Source:

Waterworks and Sewerage Fund:

Water System Fund Balance:

Utility Fund Revenues, Water & Sewer User Fees	<u>\$375,767</u>
---	------------------

Total	\$375,767
--------------	-----------

Operating Budget Impact:

This will help to avoid more serious and costly repairs in the future.

**Community Investments Program
FY 2014 through FY 2018**

**Water Plant Lagoon Renovations
CIP #WS1201**

Project Description:

Reconstruct three existing, single-stage sludge lagoons into a two-stage lagoon system. Two of the existing earthen lagoons will be combined into one large concrete lagoon for primary settlement and detention of solids, and the third lagoon will be used for final settlement.

Project Justification:

Existing lagoons are undersized and incapable of properly handling filter backwash and clarifier blowdown waters. Solids content of the effluent discharged into the receiving stream needs to be reduced. Combining two of the lagoons by removing the earthen berm and increasing the depth by two feet will expand the total storage capacity from 170,000 gallons to 400,000 gallons. Increased detention time will improve settlement of solids as well as allow more time for chlorine to dissipate naturally, which will reduce the amount of chemical needed for chlorine removal.

Project Capital Costs:

Budgeted FY 2014	534,560
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	534,560
Prior Years Costs	40,525
Later Years Costs	0
Total Cost	\$575,085

Fund Source:

Waterworks and Sewerage Fund:
Water System Fund Balance:
 Utility Fund Revenues, Water &
 Sewer User Fees \$575,085

Total \$575,085

Operating Budget Impact:

More effective and ultimately less costly handling of sludge. Project completions scheduled for Fiscal Year 2014.

**Cedar Lake Pump Station Renovations
CIP #WS1202**

Project Description:

The existing pump station was built in 1975 and all equipment, including valves, motors, wiring, and pumps, is original. The existing structure will remain intact, and all equipment will be replaced with modernized equipment.

Project Justification:

All of the equipment at this pump station is far beyond its expected service life, and needs to be replaced. This is the only pump station that provides raw water to the Water Treatment Plant, and any failures will severely jeopardize the City's ability to supply water to the public. In addition to eliminating the risk of catastrophic failure, significant cost savings will be realized with newer, more energy efficient equipment.

Project Capital Costs:

Budgeted FY 2014	757,400
Estimated FY 2015	190,000
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	947,400
Prior Years Costs	9,953
Later Years Costs	0
Total Cost	\$957,353

Fund Source:

Waterworks and Sewerage Fund:
Water System Fund Balance:
 State Aid/Grant \$350,000
 Utility Fund Revenues, Water &
 Sewer User Fees \$607,353

Total \$957,353

Operating Budget Impact:

Less costly maintenance and operation. Project completion anticipated in Fiscal Year 2015.

**Community Investments Program
FY 2014 through FY 2018**

**Feeder Water Main Replacements (10" & larger)
CIP #WS1301**

Project Description:

The purpose of this project is to replace dilapidated water main feeder lines of 10" and larger is diameter.

Project Justification:

There are many water mains throughout the City that are dilapidated and in need of replacement. Priority should be given to the water systems feeder water mains that are 10" or larger in diameter as these lines feed many of the other lines throughout the City. In recent years the City has been experiencing frequent breaks on its 10" diameter water mains on Forest Street and Springer Street, this project will initially concentrate on these areas.

Project Capital Costs:

Budgeted FY 2014	348,160
Estimated FY 2015	350,000
Estimated FY 2016	350,000
Estimated FY 2017	350,000
Estimated FY 2018	350,000
Total Five-Year Costs	1,748,160
Prior Years Costs	3,671
Later Years Costs	0
Total Cost	\$1,751,831

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$1,751,831</u>
Total	\$1,751,831

Operating Budget Impact:

Significantly less costly maintenance and operation.

**New Era Road Lift Station Replace Existing Pumps
CIP #WW9602**

Project Description:

Replace the pumps and wet well for the New Era Road Pump Station.

Project Justification:

In recent years the development at the Southern Illinois Airport has caused an increased load on an aging sanitary sewer lift station. The existing lift station is a combination wet well/dry well system, this system requires staff to enter into the underground dry well to maintain the pumps and control systems. A new wet well with submersible pumps will be constructed adjacent to the existing pump station and the existing dry well will be decommissioned.

Project Capital Costs:

Budgeted FY 2014	144,080
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	144,080
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$144,080

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$144,080</u>
Total	\$144,080

Operating Budget Impact:

New equipment will increase capacity and handle the increased load incurred by the S.I. Airport.

**Community Investments Program
FY 2014 through FY 2018**

**Northwest Wastewater Treatment Plant Bar Screen on
Grid Chamber
CIP #WW1002**

Project Description:

To replace the bar screen with a finer one.

Project Justification:

To reduce rags and lower maintenance.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	0
Estimated FY 2016	210,000
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	210,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$210,000

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:

Utility Fund Revenues, Water & Sewer User Fees	<u>\$210,000</u>
---	------------------

Total \$210,000

Operating Budget Impact:

It is too soon to estimate potential savings from this improvement.

**Alarm Communication and Flow Monitoring System
for All Lift Stations
CIP #WW1006**

Project Description:

Communication system to monitor for high wet well, power failure and flow data.

Project Justification:

Replace existing obsolete equipment, improve reliability of alarm warning system, eliminate monthly telecommunication fees and provide capability to monitor and collect flow data for future infiltration and inflow studies.

Project Capital Costs:

Budgeted FY 2014	0
Estimated FY 2015	0
Estimated FY 2016	250,000
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	250,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$250,000

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:

Utility Fund Revenues, Water & Sewer User Fees	<u>\$250,000</u>
---	------------------

Total \$250,000

Operating Budget Impact

This project will eliminate all telephone lines to 15 lift stations for an annual savings of approximately \$4,700.

**Community Investments Program
FY 2014 through FY 2018**

**SEWTP Plant Concrete Lagoon Bottom
CIP #WW1201**

Project Description:

This project involves installation of a concrete bottom in the West lagoon. Installation of drain lines to the Sludge Lagoon Pump Station will also be required.

Project Justification:

Three sludge lagoons were originally installed at the Southeast Treatment Plant when it was initially built. Sludge was pumped from the digesters to the lagoons and then during summer months was applied onto the city farm ground in wet form. Eventually, the EPA required the application of the sludge be dry form rather than wet. Drying beds were added for this purpose. With the most recent Plant upgrade, the lagoons are used for sludge stabilization after digesting and prior to drying and land application. When the Plant upgrade was done, only one lagoon was equipped with a concrete bottom. With this process the lagoon has been filled to capacity each year. The lagoons can only be emptied in the summer when the sludge can be dried. Currently, the sludge in the concrete bottom lagoon is pumped to the drying beds and only requires approximately one or two days to finish cleaning after it is pumped down to the bottom. To use one of the clay bottom lagoons, emptying requires months of dewatering with portable pumps and then use of an end loader and dump trucks for two to three weeks to dig out the sludge. Installation of a concrete bottom in another lagoon would allow for a more efficient use of our employees and assets.

Project Capital Costs:

Budgeted FY 2014	222,080
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	222,080
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$222,080

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:

Utility Fund Revenues, Water &
Sewer User Fees

\$222,080

Total

\$222,080

Operating Budget Impact:

Substantially reduces the drying time for the sludge and also reduces the utilization of resources; equipment and personnel.

**Community Investments Program
FY 2014 through FY 2018**

**Lift Station Emergency Power Systems
CIP #WW1301**

Project Description:

This project will provide emergency backup power to various lift stations throughout the City.

Project Justification:

During power outages it is necessary for City staff to travel from lift station to lift station with portable generators and or pumps to prevent sewage backups. Installation of emergency generators at key lift stations will lessen the burden on staff and provide for seamless operation of these lift stations during power outages.

Project Capital Costs:

Budgeted FY 2014	343,760
Estimated FY 2015	0
Estimated FY 2016	0
Estimated FY 2017	0
Estimated FY 2018	0
Total Five-Year Costs	343,760
Prior Years Costs	4,064
Later Years Costs	0
Total Cost	\$347,824

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:

State Aid/Grant \$220,000

Utility Fund Revenues, Water &
Sewer User Fees \$127,824

Total \$347,824

Operating Budget Impact:

Avoid risk of damage from loss of power. Also reduces cost of overtime pay of City Staff covering outages.