

# Storm Drainage

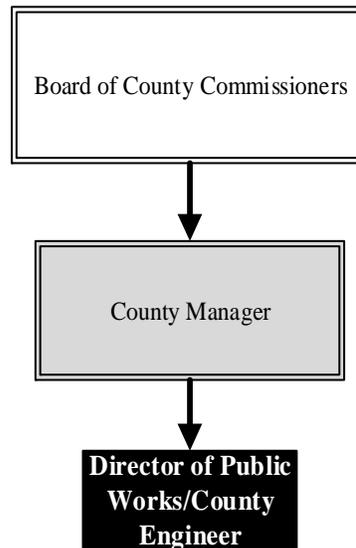
**Mission: To enhance public safety and property values by minimizing property damage from flooding and erosion, protection of stormwater quality, enforcement of local regulations, and compliance with federal and state law.**

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## Overview

The programs of Storm Drainage: Stream Maintenance, Flood Control, and Stormwater Management, prevent or minimize flood damage by shaping and clearing streambeds and managing drainage in the County's unincorporated areas. Staff reviews stormwater requirements for developments, provides planning and permitting services for capital improvement projects, and conducts and oversees long-term project planning of drainage enhancements in unincorporated Sedgwick County. Of particular note is the Division's continuing and successful effort to improve flow on Jester Creek. Storm Drainage jointly funds maintenance of the Wichita-Valley Center Flood Control Project with the City of Wichita.



## Strategic Goals:

- *Protect the County's infrastructure by keeping watercourses free from obstruction*
- *Protect the investment in the Wichita-Valley Center Flood Control Project by supporting an effective maintenance program*
- *Improve stormwater quality and the environment through an effective stormwater management program*

## Highlights

- Remediation of Dry Creek to prevent flooding and restore natural habitat
- Signed a Memorandum of Agreement with Kansas Department of Wildlife, Parks, and Tourism
- Cleaned out Cowskin Creek in Haysville to remove trees and debris, improving water flow and protecting property



# Accomplishments and Priorities

## Accomplishments

The Storm Drainage Division has provided joint funding with the City of Wichita to ensure upkeep and maintenance of the Wichita Valley Center Flood Control project (the "Big Ditch") to annually meet Federal regulations. The Stream Maintenance Division has worked to improve water flow along several County streams, including Dry Creek, Jester Creek, and the Cowskin. This time-consuming process involves meeting with property owners to explain the project and gain permission to access private property if necessary. The Stream Maintenance crew is meticulous to leave property in the same or better condition than when it arrived. The Division has also successfully restored natural habitats in waterways to ensure the preservation of endangered species. The Storm Drainage Division has also reached an agreement with the Kansas Department of Wildlife, Parks, and Tourism (KDWPT) to streamline project approvals and reduce regulatory burdens on citizens and Sedgwick County as it relates to threatened and endangered species in the State. Sedgwick County is the only local unit of government in Kansas to reach such an agreement with KDWPT.

## Priorities

Storm Drainage continues to maintain operations with reduced resources; proactively clearing debris and vegetation from County maintained streams to reduce or eliminate impact on property owners and infrastructure; and ensuring environmental compliance through the timely acquisition of permits. In addition, a priority for Storm Drainage is to continue the levee certification process in the Wichita-Valley Center Flood Control Project. This certification of 100 miles of levees is required by the Federal Emergency Management Agency and keeps property owners from increased insurance rates.



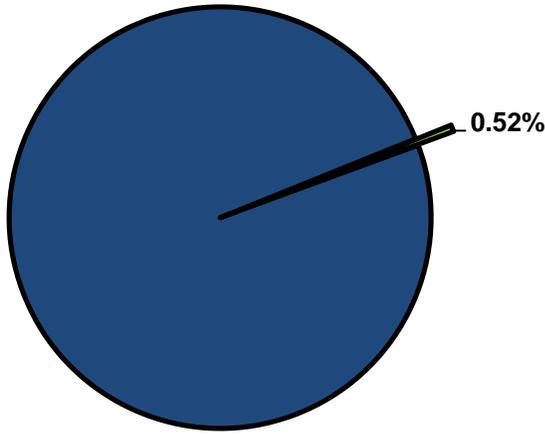
## Significant Budget Adjustments

Changes to Storm Drainage's 2017 budget include a \$500,000 increase for the Wichita-Valley Center Flood Control Project for major maintenance and repairs in the 2017 Capital Improvement Program.

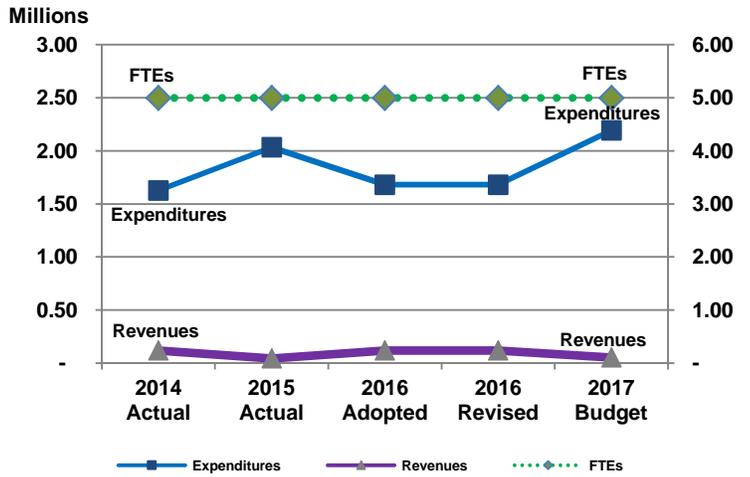


**Divisional Graphical Summary**

**Storm Drainage**  
Percent of Total County Operating Budget



**Expenditures, Program Revenue & FTEs**  
All Operating Funds



**Budget Summary by Category**

|                                     | 2014 Actual      | 2015 Actual      | 2016 Adopted     | 2016 Revised     | 2017 Budget      | Amount Chg '16 Rev.-'17 | % Chg '16 Rev.-'17 |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|-------------------------|--------------------|
| <b>Expenditures</b>                 |                  |                  |                  |                  |                  |                         |                    |
| Personnel                           | 372,957          | 384,771          | 396,678          | 396,678          | 412,384          | 15,706                  | 3.96%              |
| Contractual Services                | 1,250,814        | 1,144,537        | 1,282,062        | 1,282,062        | 1,277,674        | (4,388)                 | -0.34%             |
| Debt Service                        | -                | -                | -                | -                | -                | -                       | -                  |
| Commodities                         | 2,439            | 3,449            | 2,444            | 2,444            | 2,444            | -                       | 0.00%              |
| Capital Improvements                | -                | 50               | -                | -                | 500,000          | 500,000                 |                    |
| Capital Equipment                   | -                | -                | -                | -                | -                | -                       | -                  |
| Interfund Transfers                 | -                | 500,000          | -                | -                | -                | -                       | -                  |
| <b>Total Expenditures</b>           | <b>1,626,209</b> | <b>2,032,807</b> | <b>1,681,184</b> | <b>1,681,184</b> | <b>2,192,502</b> | <b>511,318</b>          | <b>30.41%</b>      |
| <b>Revenues</b>                     |                  |                  |                  |                  |                  |                         |                    |
| Tax Revenues                        | -                | -                | -                | -                | -                | -                       | -                  |
| Licenses and Permits                | -                | -                | -                | -                | -                | -                       | -                  |
| Intergovernmental                   | -                | -                | -                | -                | -                | -                       | -                  |
| Charges for Services                | -                | -                | -                | -                | -                | -                       | -                  |
| All Other Revenue                   | 118,923          | 42,023           | 117,028          | 117,028          | 52,448           | (64,580)                | -55.18%            |
| <b>Total Revenues</b>               | <b>118,923</b>   | <b>42,023</b>    | <b>117,028</b>   | <b>117,028</b>   | <b>52,448</b>    | <b>(64,580)</b>         | <b>-55.18%</b>     |
| <b>Full-Time Equivalents (FTEs)</b> |                  |                  |                  |                  |                  |                         |                    |
| Property Tax Funded                 | 5.00             | 5.00             | 5.00             | 5.00             | 5.00             | -                       | 0.00%              |
| Non-Property Tax Funded             | -                | -                | -                | -                | -                | -                       | -                  |
| <b>Total FTEs</b>                   | <b>5.00</b>      | <b>5.00</b>      | <b>5.00</b>      | <b>5.00</b>      | <b>5.00</b>      | <b>-</b>                | <b>0.00%</b>       |

**Budget Summary by Fund**

| Fund                      | 2014 Actual      | 2015 Actual      | 2016 Adopted     | 2016 Revised     | 2017 Budget      | Amount Chg '16 Rev.-'17 | % Chg '16 Rev.-'17 |
|---------------------------|------------------|------------------|------------------|------------------|------------------|-------------------------|--------------------|
| General Fund              | 1,626,209        | 2,032,807        | 1,681,184        | 1,681,184        | 2,192,502        | 511,318                 | 30.41%             |
| <b>Total Expenditures</b> | <b>1,626,209</b> | <b>2,032,807</b> | <b>1,681,184</b> | <b>1,681,184</b> | <b>2,192,502</b> | <b>511,318</b>          | <b>30.41%</b>      |

**Significant Budget Adjustments from Prior Year Revised Budget**

|  | Expenditures   | Revenues | FTEs     |
|--|----------------|----------|----------|
| Inclusion of Wichita-Valley Center Flood Control Project major maintenance and repairs | 500,000        |          |          |
| <b>Total</b>   | <b>500,000</b> | <b>-</b> | <b>-</b> |

**Budget Summary by Program**

| Program               | Fund | 2014 Actual      | 2015 Actual      | 2016 Adopted     | 2016 Revised     | 2017 Budget      | % Chg '16 Rev.-'17 | 2017 FTEs   |
|-----------------------|------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------|
| Stream Maintenance    | 110  | 481,205          | 474,329          | 488,491          | 488,491          | 488,251          | -0.05%             | 4.00        |
| Flood Control         | 110  | 1,050,254        | 1,483,969        | 1,091,129        | 1,091,129        | 1,591,129        | 45.82%             | -           |
| Stormwater Management | 110  | 94,751           | 74,509           | 101,564          | 101,564          | 113,122          | 11.38%             | 1.00        |
| <b>Total</b>          |      | <b>1,626,209</b> | <b>2,032,807</b> | <b>1,681,184</b> | <b>1,681,184</b> | <b>2,192,502</b> | <b>30.41%</b>      | <b>5.00</b> |

**Personnel Summary By Fund**

| Position Titles               | Fund | Grade    | Budgeted Compensation Comparison |              |                | FTE Comparison |              |             |
|-------------------------------|------|----------|----------------------------------|--------------|----------------|----------------|--------------|-------------|
|                               |      |          | 2016 Adopted                     | 2016 Revised | 2017 Budget    | 2016 Adopted   | 2016 Revised | 2017 Budget |
| Engineer                      | 110  | GRADE133 | 63,087                           | 72,500       | 72,500         | 1.00           | 1.00         | 1.00        |
| Crew Foreman                  | 110  | GRADE124 | 53,905                           | 54,929       | 54,929         | 1.00           | 1.00         | 1.00        |
| Crew Chief                    | 110  | GRADE122 | 45,943                           | 47,143       | 47,143         | 1.00           | 1.00         | 1.00        |
| Equipment Operator III        | 110  | GRADE120 | 92,437                           | 93,055       | 93,055         | 2.00           | 2.00         | 2.00        |
| <b>Subtotal</b>               |      |          |                                  |              | <b>267,627</b> |                |              |             |
| Add:                          |      |          |                                  |              |                |                |              |             |
| Budgeted Personnel Savings    |      |          |                                  |              | -              |                |              |             |
| Compensation Adjustments      |      |          |                                  |              | 11,987         |                |              |             |
| Overtime/On Call/Holiday Pay  |      |          |                                  |              | 7,066          |                |              |             |
| Benefits                      |      |          |                                  |              | 125,704        |                |              |             |
| <b>Total Personnel Budget</b> |      |          |                                  |              | <b>412,384</b> | <b>5.00</b>    | <b>5.00</b>  | <b>5.00</b> |

**• Stream Maintenance**

The Stream Maintenance Division serves Sedgwick County citizens by correcting obstructions within watercourses, reshaping bank lines to ensure the normal course of flow following flood conditions, and inspecting streams and other watercourses during prolonged rain and flood conditions to ensure protection of life and property.

The Division's four-person staff performs the wide variety of work outlined above. They are assigned and use a variety of heavy equipment, principally bulldozers and tracked excavators, to accomplish their mission.

**Fund(s): County General Fund 110**

| Expenditures                        | 2014<br>Actual | 2015<br>Actual | 2016<br>Adopted | 2016<br>Revised | 2017<br>Budget | Amnt. Chg.<br>'16 - '17 | % Chg.<br>'16 - '17 |
|-------------------------------------|----------------|----------------|-----------------|-----------------|----------------|-------------------------|---------------------|
| Personnel                           | 284,171        | 292,813        | 303,252         | 303,252         | 307,490        | 4,238                   | 1.4%                |
| Contractual Services                | 194,595        | 178,067        | 182,795         | 182,795         | 178,317        | (4,478)                 | -2.4%               |
| Debt Service                        | -              | -              | -               | -               | -              | -                       | 0.0%                |
| Commodities                         | 2,439          | 3,449          | 2,444           | 2,444           | 2,444          | -                       | 0.0%                |
| Capital Improvements                | -              | -              | -               | -               | -              | -                       | 0.0%                |
| Capital Equipment                   | -              | -              | -               | -               | -              | -                       | 0.0%                |
| Interfund Transfers                 | -              | -              | -               | -               | -              | -                       | 0.0%                |
| <b>Total Expenditures</b>           | <b>481,205</b> | <b>474,329</b> | <b>488,491</b>  | <b>488,491</b>  | <b>488,251</b> | <b>(240)</b>            | <b>0.0%</b>         |
| <b>Revenues</b>                     |                |                |                 |                 |                |                         |                     |
| Taxes                               | -              | -              | -               | -               | -              | -                       | 0.0%                |
| Intergovernmental                   | -              | -              | -               | -               | -              | -                       | 0.0%                |
| Charges For Service                 | -              | -              | -               | -               | -              | -                       | 0.0%                |
| All Other Revenue                   | -              | 28             | -               | -               | -              | -                       | 0.0%                |
| <b>Total Revenues</b>               | <b>-</b>       | <b>28</b>      | <b>-</b>        | <b>-</b>        | <b>-</b>       | <b>-</b>                | <b>0.0%</b>         |
| <b>Full-Time Equivalents (FTEs)</b> | <b>4.00</b>    | <b>4.00</b>    | <b>4.00</b>     | <b>4.00</b>     | <b>4.00</b>    | <b>-</b>                | <b>0.0%</b>         |

**• Flood Control**

The City-County Flood Control program inspects, operates, and maintains the Wichita-Valley Center Flood Control Project in accordance with standards established by the U.S. Army Corps of Engineers. This program is administered by the City of Wichita's Public Works Department and is funded equally by the City of Wichita and Sedgwick County.

The Wichita-Valley Center Flood Control Project includes 40.9 miles of channels, 97 miles of levees, and total area of 5,613 acres. Maintenance of the flood control project includes mowing, clearing draining structures, removing debris from bridges and other structures, grading levees and roadways, repairing erosion, stabilizing banks, and repairing fences and gates.

**Fund(s): County General Fund 110**

| Expenditures                        | 2014<br>Actual   | 2015<br>Actual   | 2016<br>Adopted  | 2016<br>Revised  | 2017<br>Budget   | Amnt. Chg.<br>'16 - '17 | % Chg.<br>'16 - '17 |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|-------------------------|---------------------|
| Personnel                           | -                | -                | -                | -                | -                | -                       | 0.0%                |
| Contractual Services                | 1,050,254        | 983,969          | 1,091,129        | 1,091,129        | 1,091,129        | -                       | 0.0%                |
| Debt Service                        | -                | -                | -                | -                | -                | -                       | 0.0%                |
| Commodities                         | -                | -                | -                | -                | -                | -                       | 0.0%                |
| Capital Improvements                | -                | -                | -                | -                | 500,000          | 500,000                 | 0.0%                |
| Capital Equipment                   | -                | -                | -                | -                | -                | -                       | 0.0%                |
| Interfund Transfers                 | -                | 500,000          | -                | -                | -                | -                       | 0.0%                |
| <b>Total Expenditures</b>           | <b>1,050,254</b> | <b>1,483,969</b> | <b>1,091,129</b> | <b>1,091,129</b> | <b>1,591,129</b> | <b>500,000</b>          | <b>45.8%</b>        |
| <b>Revenues</b>                     |                  |                  |                  |                  |                  |                         |                     |
| Taxes                               | -                | -                | -                | -                | -                | -                       | 0.0%                |
| Intergovernmental                   | -                | -                | -                | -                | -                | -                       | 0.0%                |
| Charges For Service                 | -                | -                | -                | -                | -                | -                       | 0.0%                |
| All Other Revenue                   | 118,923          | 41,994           | 117,028          | 117,028          | 52,448           | (64,580)                | -55.2%              |
| <b>Total Revenues</b>               | <b>118,923</b>   | <b>41,994</b>    | <b>117,028</b>   | <b>117,028</b>   | <b>52,448</b>    | <b>(64,580)</b>         | <b>-55.2%</b>       |
| <b>Full-Time Equivalents (FTEs)</b> | <b>-</b>         | <b>-</b>         | <b>-</b>         | <b>-</b>         | <b>-</b>         | <b>-</b>                | <b>0.0%</b>         |

**• Stormwater Management**

Stormwater Management provides citizens a single point of contact for drainage issues within the unincorporated areas of the County. Equally important is the capability to implement a comprehensive approach to stormwater planning and design. Established in 2001, the Division has been responsible for a series of drainage projects beginning in the 2001 capital improvement program. These drainage projects occupy a significant portion of the Division's time, as does the design of future projects. The Division has a wide variety of responsibilities that include implementation of Phase II of the National Pollutant Discharge Elimination System (NPDES), a federal mandate.

| <b>Fund(s): County General Fund 110</b> |                        |                        |                         |                         |                        |                                 |                             |
|---|------------------------|------------------------|-------------------------|-------------------------|------------------------|---------------------------------|-----------------------------|
| <b>Expenditures</b>                     | <b>2014<br/>Actual</b> | <b>2015<br/>Actual</b> | <b>2016<br/>Adopted</b> | <b>2016<br/>Revised</b> | <b>2017<br/>Budget</b> | <b>Amnt. Chg.<br/>'16 - '17</b> | <b>% Chg.<br/>'16 - '17</b> |
| Personnel                               | 88,785                 | 91,958                 | 93,426                  | 93,426                  | 104,894                | 11,468                          | 12.3%                       |
| Contractual Services                    | 5,966                  | (17,498)               | 8,138                   | 8,138                   | 8,228                  | 90                              | 1.1%                        |
| Debt Service                            | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| Commodities                             | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| Capital Improvements                    | -                      | 50                     | -                       | -                       | -                      | -                               | 0.0%                        |
| Capital Equipment                       | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| Interfund Transfers                     | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| <b>Total Expenditures</b>               | <b>94,751</b>          | <b>74,509</b>          | <b>101,564</b>          | <b>101,564</b>          | <b>113,122</b>         | <b>11,558</b>                   | <b>11.4%</b>                |
| <b>Revenues</b>                         |                        |                        |                         |                         |                        |                                 |                             |
| Taxes                                   | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| Intergovernmental                       | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| Charges For Service                     | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| All Other Revenue                       | -                      | -                      | -                       | -                       | -                      | -                               | 0.0%                        |
| <b>Total Revenues</b>                   | <b>-</b>               | <b>-</b>               | <b>-</b>                | <b>-</b>                | <b>-</b>               | <b>-</b>                        | <b>0.0%</b>                 |
| <b>Full-Time Equivalents (FTEs)</b>     | <b>1.00</b>            | <b>1.00</b>            | <b>1.00</b>             | <b>1.00</b>             | <b>1.00</b>            | <b>-</b>                        | <b>0.0%</b>                 |