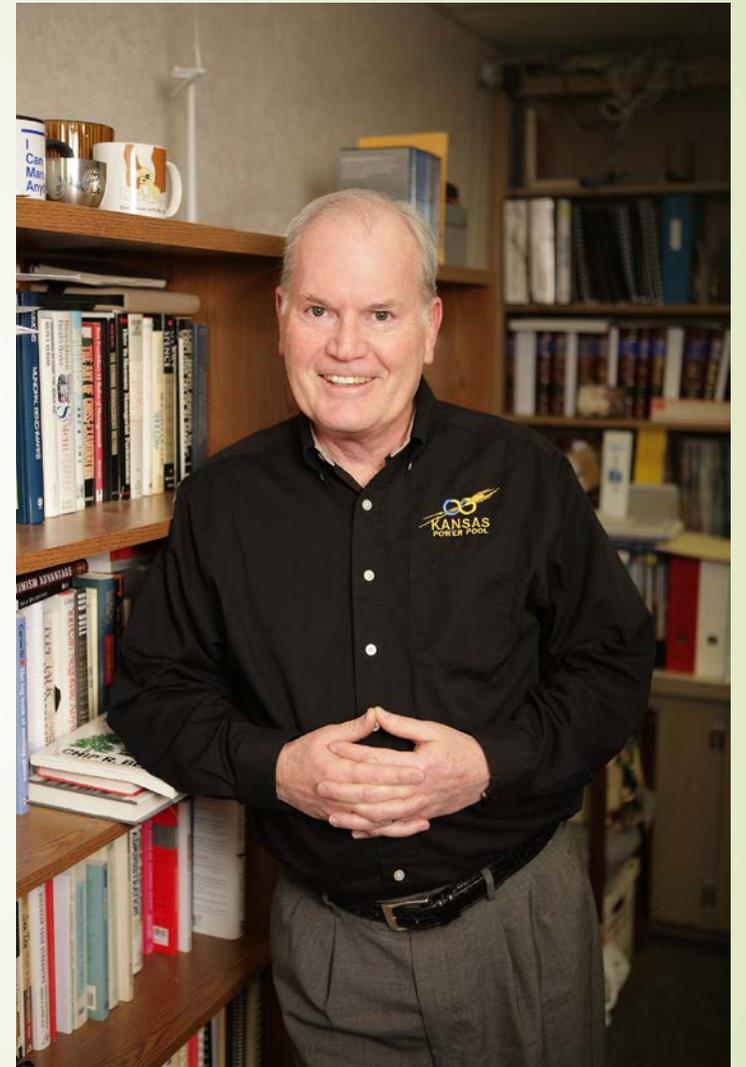


Environmental Finance Center

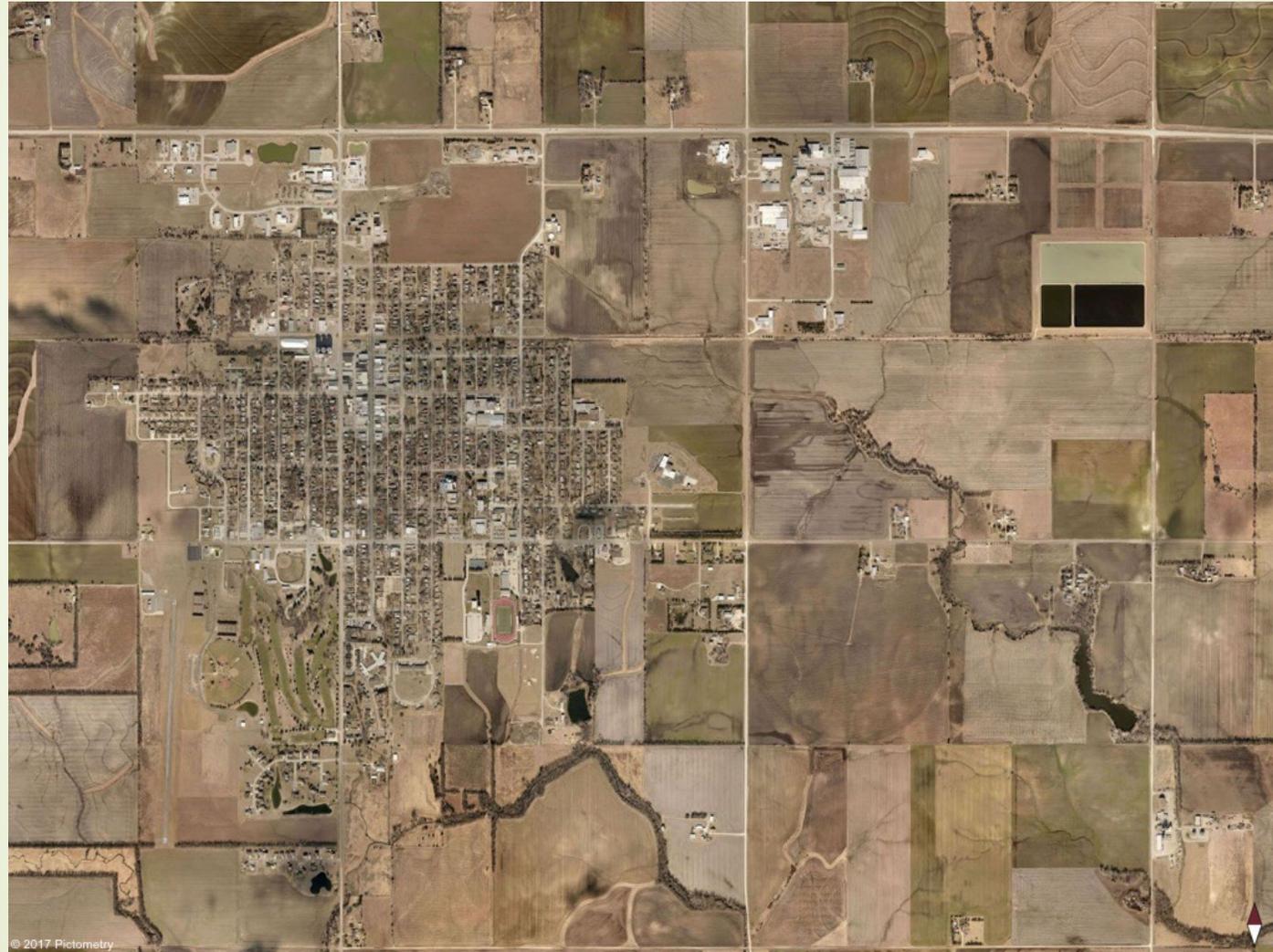
September 12, 2017

Larry Paine

City Administrator lpaine@cityofhillsboro.net

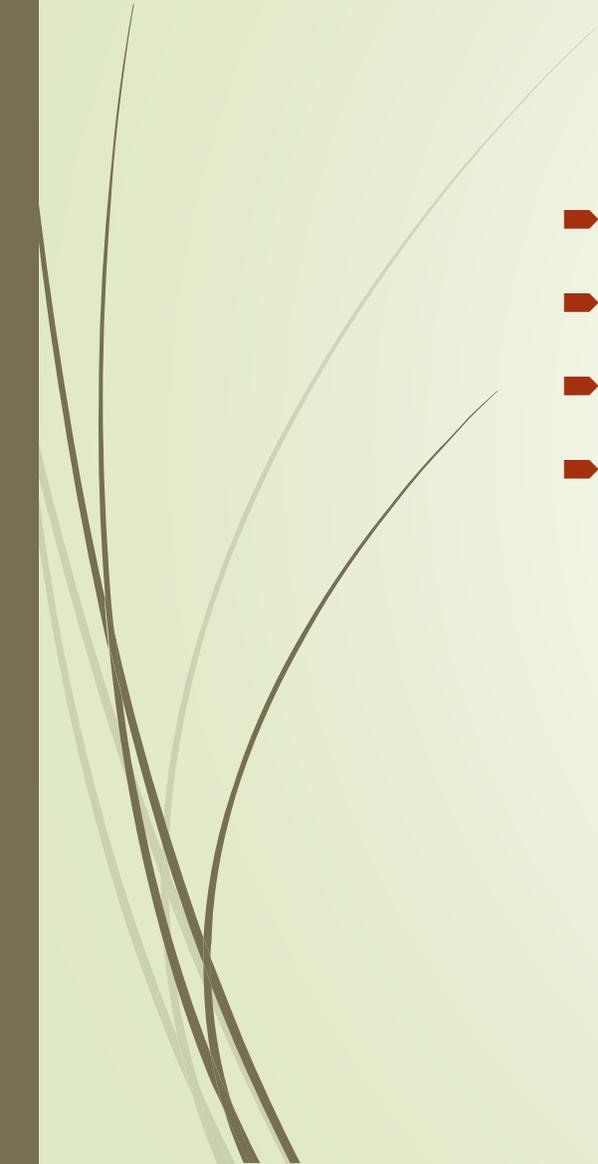


Hillsboro, Kansas





Hillsboro History

- ▶ 2015 KMU Pre-Conference Seminar
 - ▶ Meeting with SEMS CEO Mitch Copman
 - ▶ Invited Governing Body of Hillsboro and Marion plus staff
 - ▶ Selecting the department to start
- 



Selecting the department

- ▶ Water Department
 - ▶ Department head with willingness to try new things
 - ▶ Academically prepared
 - ▶ Able to teach/assist other departments when it is their turn to start
 - ▶ An internal CHAMPION
- ▶ Budget issues
 - ▶ History of low fund balance
- ▶ Auditors asking for inventory data
- ▶ What's next?
 - ▶ Sewer
 - ▶ Electric
 - ▶ Streets



Water Department Approach

- ▶ Collect Data
 - ▶ Address distribution first
 - ▶ Using Mobile Work Order system
 - ▶ Plant Maintenance
 - ▶ Second step
 - ▶ Automatic work order generation
 - ▶ Budgeted funds for plant and system maintenance repair
- 



Financial Advantage—We were lucky!

- ▶ Bond Issue paid off in Water Fund in 2015
- ▶ Freed up \$290,000 (\$1,000,000 Budget)
 - ▶ Fund Reserve
 - ▶ Plant Maintenance
 - ▶ Distribution system line replacement
- ▶ Governing Body approved a fund balance reserve policy
 - ▶ 90 day cash reserves



Implementation of Asset Management Software

- ▶ I chose SEMS, Atlanta, Georgia
- ▶ KMU, Associate Member



Getting Started

- ▶ Started looking at the various water plant systems
- ▶ Had to think in “parent/child” relationships with these systems
 - ▶ Pump house
 - ▶ Filtration
 - ▶ Chlorination
 - ▶ Distribution
 - ▶ Storage
- ▶ The parent is the main system and the child is all the equipment making up that system



- ▶ Data collection phase

- ▶ We really didn't understand the parent/child thing at first
- ▶ When we started entering data on each piece of equipment we learned that our equipment was older than what we established as the useful life of the equipment.
 - ▶ We said pumps had a 20 year life cycle
 - ▶ Our pumps had 2X that life
- ▶ Caused our Capital Improvement element to have every piece in current year and not spread over a period of years.
 - ▶ We had to re-enter data about each piece again to get multi-year planning data
- ▶ Water Meter data in our utility billing system wasn't helpful.
 - ▶ We had to physically look at each address and check meter number and size
 - ▶ Re-entered data in the software



First Win!

- Set up system to generate work orders
- Used mobile devices to communicate with worker in the field.
- Set up a cellular iPad with “DoForms” to communicate with SEMS software
- UB Clerk gets a request for service and creates a request for service
- Field worker gets a text message and email saying there is a new work order
- Field worker opens work order and attends to that work



Second Win

- ▶ Started tracking cross connection testing
 - ▶ We had an inventory of all the devices
 - ▶ When we added a new device in the water system building permit information was shared with the water utility
 - ▶ Customers get letters telling them that testing is required and due
 - ▶ Compliance data is entered and those who miss the reporting deadline are reminded and to a limited number warned of impending shut-off



Contact Information

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