

# Sump Manhole Structures Located Throughout Area

## PROJECT BACKGROUND

The City partnered with Benton SWCD to install four sump manholes using a Clean Water Legacy grant through the Board of Water and Soil Resources. Sump manholes are structures located below ground that rainwater is directed to through an underground pipe. The structure has a depressed area (sump) located below the pipe to capture and retain sediment and pollutants. The four sumps were retrofitted into the City's existing stormdrain system in targeted, priority areas. Baffles are used inside the sump structures to reduce energy of the water entering and leaving the structure, keeping sediment inside the sump. The sumps treat 12.5 acres of stormwater runoff that previously discharged to the Mississippi River without treatment.

## PROJECT SUMMARY

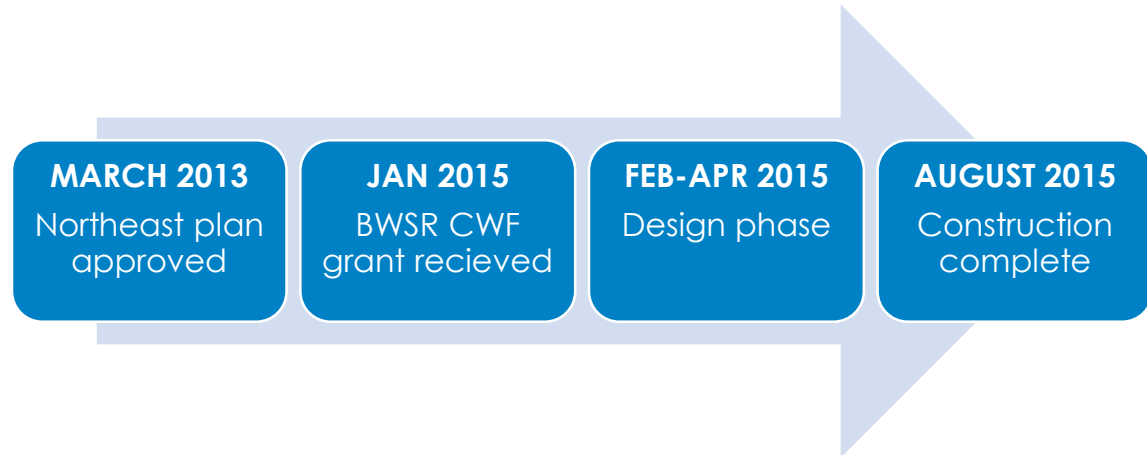
- Construction cost: \$90,000.
- Grant Funded Cost Portion: \$90,000
- Constructed July-August 2015.
- Coordinated project with area businesses and Benton SWCD.



## PROJECT LAYOUT



## PROJECT SCHEDULE



**SUSTAINABILITY BENEFITS** – Sump manholes remove pollutants before they can reach the Mississippi River

### Estimated Annual Pollution Reduction

2.2 pounds of phosphorus

1,500 pounds of sediment