

IOWA DEPARTMENT OF NATURAL RESOURCES

Leading Iowans in Caring for our natural resources

Iowa began looking at Integrated Planning in 2013
Attended regional EPA workshop
Keys points that Iowa understood

- Agreements were between states and the municipality
- No EPA oversight or approval, but they'd like to be aware of what is going on
- Project and cost considerations can include all CWA needs as well as drinking water, air and other federal program requirements

Three paths to extended compliance schedules

- Consent Order (the legal route)
- Disadvantaged Community
- Integrated Planning

Goals of Integrated Planning

- Justify extended compliance schedules in NPDES permits
- Allow cities to choose their own path

Implementation in Iowa

- Integrated Planning is a blend of consent order and compliance schedule paths
- Financial justification and long term planning
- Longer compliance schedule than we would typically allow
- No lawyers needed!

Plans could be very simple

- Clear financial justification
- Prioritizing investment in I&I work over plant construction
- Understanding (and demonstrating) the real impacts to the environment

Impacts to municipalities

- City takes the lead
- City determines the priorities
- Allows city to develop IP internally without (necessarily) hiring a consultant

Impacts to state

- Less resource intensive (did I mention no lawyers?)
- The IP gives us the defense we need for a longer schedule

Along came the City of Boone

- Current compliance schedule for disinfection
- Significant I&I to collection system
- Design flows for disinfection project were very high
- Cost for disinfecting those flows were also very high

City of Boone Background

- Population = 12,000 persons constant for 50 years
- Area size = 9 square miles
- Sewer collection system size = 352,000 feet
- Sump Pumps encouraged to be connected to sewer collection system for "cleaning"



City of Boone Financial Background

- New Water Treatment Plant in 1998 = \$8 million
- New Wastewater Treatment Plant 1996 = \$10 million
- Sewer Collection System Improvements 2010 = \$17 million
- Total Utility Debt = \$35 million!



City of Boone Integrated Plan

- 2014 Permit had Original Compliance Deadline May 1, 2018 for E. Coli disinfection
- In 2015 Boone had Highest Sewer Rates in Iowa =
 3.5% of median income
- In 2016 Integrated Plan approved
- New Compliance Deadline of March 1, 2023 = 5
 year delay



City of Boone Integrated Plan Benefits

- Allowed additional time for compliance = No Permit Violation on record
- Allowed time for other previous project completion
 no rate increase
- Allowed time to reduce sewer system I/I = Program results are 30% high flow reduction so far = 50%
 Target
- Allowed for more manageable design flows = smaller disinfection system = cost savings

