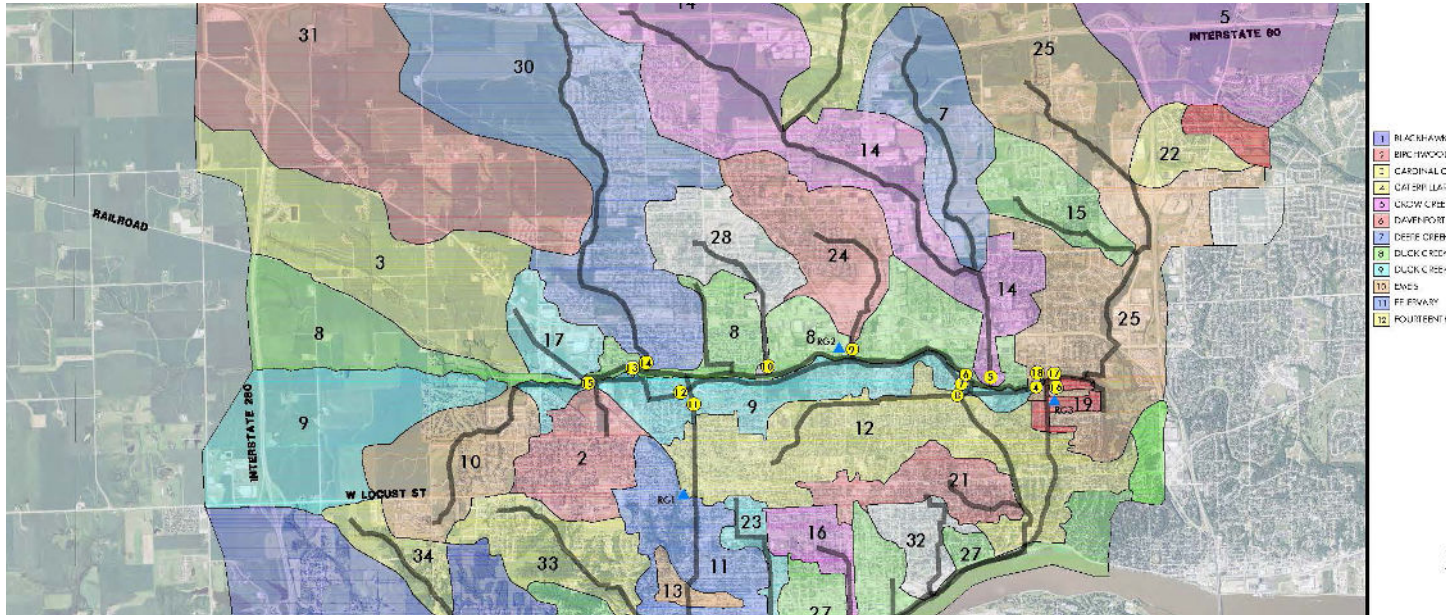


INDUSTRIAL GROWTH PLAN

DAVENPORT, IOWA



PROJECT DESCRIPTION

In continuation of the 2015 Sanitary Sewer Investigative Metering project, which demonstrated sewer surcharging was occurring during wet-weather events in the Duck Creek Basins downstream, City staff hired McClure to create an overall hydraulic strategy for the sanitary sewer system to convey the wastewater generated from the upstream areas serving the extreme northern and western areas of Davenport to the Water Pollution Control Plant (WPCP).

During the Spring of 2017, McClure installed 19 flow meters and three rainfall gauges in key areas throughout the Duck Creek and West Diversion Tunnel areas to investigate sanitary sewer flows. A hydraulic model was developed to determine the current capacity and the peak-hourly wet-weather flow for the 10-year rainfall event to define any excess water or deficiency in capacity. Ultimately, eight projects were identified in the hydraulic strategy to assist the City in expanding their sewer capacity.

PROJECT HIGHLIGHTS:

- Reviewed City's sanitary sewer records - GIS, I&I reports, As-Builts.
- Monitored flow by installing 19 flow meters and three (3) rain gauges.
- Created hydraulic model to project sanitary flow from 10-year rainfall event.
- Created a hydraulic strategy to assist City's decision-making process for sanitary sewer capacity expansion.

COMPLETION DATE

2017

COST OF SERVICES

\$253,370

REFERENCE

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