



May 10, 2023

## **Request for Proposal for Sanitary Sewer System Acoustic Assessment**

1. Conduct sewer line inspections using transmissive acoustics as follows:
  - a. Sewer line Acoustic Transmissive Inspection as specified in ASTM F3220 – 17 “Standard Practice for Prioritizing Sewer Pipe Cleaning Operations by Using Transmissive Acoustic Inspection”. These services will be accomplished by using the systems provided by InfoSense, Inc. using equipment known as Sewer Line Rapid Assessment Tools (SL-RAT).
  - b. A detailed summary of each sewer line assessed including the following:
    - i. Unique Measurement Identification Number
    - ii. Time and Date of Measurement
    - iii. Length of pipe segment measured as measured by available Global Positioning Services (GPS).
    - iv. GPS Location of Transmitter and Receiver at the time of measurement
    - v. The Condition of the pipe will be reported on a scale including but not limited to a score of 0-10 as shown below:
      - i. 10 = Good - No significant obstructions within the pipe
      - ii. 7-10 = Good – Minor impediments within the pipe such as joint offsets, partial sags, protruding laterals, debris, minor grease, and/or minor root fibers and/or other obstructions that could affect the score.
      - iii. 4-6 = Impediments within the pipe such as joint offsets, partial sags, protruding laterals, debris, grease, and/or root fibers. Single or multiple occurrences and/or other obstructions that could affect the score.

- iv. 1-3 = Significant impediments within the pipe such as multiple joint offsets, near full pipe sag, multiple protruding laterals, significant debris, significant grease, significant root fibers and/or root balls. Single or multiple occurrences and/or other obstructions that could affect the score.
    - v. 0 = Full pipe sag, single or multiple obstructions within the pipe reaching or nearly reaching the flow and/or other obstructions that could affect the score.
  - vi. The format of the final report shall be provided electronically as a hosted GIS dashboard.
- c. Perform a visual manhole inspection for each manhole for Customer as follows:
  - i. Each manhole will be visually inspected and rated as Good, Poor, or Fair for the following attributes:
    - i. Proper seating of manhole lid
    - ii. Condition of manhole collar
    - iii. Condition of overall interior manhole structure
    - iv. Condition of manhole shelf
    - v. Presence of infiltration
  - ii. Data from manhole inspections shall be added as attribute data along with the acoustic assessments in the GIS dashboard.