Coventry Wastewater Facilities Plan Update

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Facility Plan Introduction

• Facility Plan (FP) to be updated every 5-years for a 20-year future planning period.
  – Last Update in 2016.
• Original Wastewater Studies began in late 1960s to early 1970s
• History of this Facility Plan
  – 1995 Facilities Plan
  – 2003 Facilities Plan Reaffirmation
  – 2010 Facilities Plan Update
  – 2016 Facilities Plan Update
• Approved FP is required to be eligible for the SRF program.
Original Town Sewer Service Areas (1977)
Existing Town Planning Areas (2016)
Changes Included in the 2016 FP Update

• Update/Confirm information from the previous FP document (2010 FP Update).
• Update Wastewater Flow Estimates for the 20-year Planning Period.
• Update the FP to include recently constructed and/or acquired sewer infrastructure.
  – Sewer Contract 6/6A (Lakeside Drive Area).
  – Sewer Contact 7/7A (Industrial Drive Area).
  – Woodland Manor System (Pump Station and Forcemain).
• Proposed utilization of additional capacity in the Woodland Manor System to include additional areas of need (i.e. Area N-1 – Nooseneck Hill Road/Mapleroot Village).
• Provide recommendations for the Town’s wastewater system moving forward.
Sewer Program Needs

- Planning areas were prioritized for the sewer program based on physical characteristics and OWTS limitations of the area(s).
  - Shallow groundwater
    - OWTS systems in high groundwater have increased chance of causing groundwater pollution from leach field effluent.
  - Shallow bedrock
    - OWTS systems in areas with shallow bedrock do not allow the proper depth of soil for filtering/treatment of leach field effluent.
  - Steep ground slopes
    - OWTS leach field construction/reconstruction and layout difficult in steeper sloped areas.
  - Soil Suitability
    - Soil’s ability to absorb and filter leach field effluent.
  - Lot sizes
    - Smaller lot sizes make the construction of new and replacement OWTS layout difficult.
  - Distance to surface water(s)
    - Close proximity to a surface water increase the likelihood of direct discharges from a failing OWTS system
    - Flooding concerns.
History

- History of Existing Sewer System
  - New London Turnpike Sewer (early 1980s)
  - Broad Street Sewers (Harris)
  - Woodland Manor PS and FM (~1980)
  - Arnold Road Pumping Station and Force Main (Cal Chemical, ~1985)
  - North Road Terrace Sewers (CHA, ~1985)
  - North Branch Interceptor Sewer (Victor Elec.~1985)
  - Contracts 03-01 & 03-02 (2004)
    • Tiogue Ave & Washington St Areas and Sandy Bottom Rd PS
  - Contract 03-03 (2006)
    • Hopkins Hill Rd FM
    • Tiogue Ave/Anthony St/ Fairview Ave/Ramblewood Estates
  - Contract 5 (2008)
    • Main St/Contentment Dr/Boston St Areas
    • Johnson Blvd
  - Contract 6/6A (2012)
    • Lakeside Drive Areas
  - Contract 7/7A (2014)
    • Industrial Drive Areas
  - Arnold Road
    • Northern Arnold Road (2016-17)
    • Southern Arnold Road (2017)
Sewer Program

• Northern Arnold Road
  – Extension of the existing Contract 6 – Lakeside Drive Project.
  – Served properties adjacent to Tiogue Lake.
  – Provided a discharge point for the proposed future Briar Point Area forcemain.
  – Fast tracked installation to be completed before final overlay of Arnold Road

• Southern Arnold Road
  – Dry gravity/low pressure lines installed as part of the service area for the future Briar Point area sewers.
  – Will become active once the Briar Point area is constructed.
  – Fast tracked installation to be completed before final overlay of Arnold Road.
Existing Town Planning Areas (2016)
Questions

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