

# PUMP STATION UPGRADES

April 2011



# OLD COLCHESTER ROAD PUMP STATION

## MAJOR DEFICIENCIES

- Limited wet well size and operating volume
- Frequent pump plugging due to a lack of influent screening/grinder
- Limited size of steel dry pit makes interior modifications difficult
- Original pumps and interior valves
- No on-site standby power
- No exterior isolation valve on forcemain

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## RECOMMENDED PLAN

- Old Colchester Road Pump Station
  - New influent channel with sewage grinder and wet well
  - New dry pit with at-grade building containing 2 vertical centrifugal pumps
  - Duplex control panel with variable frequency drives and telemetry
  - On-site standby generator

# PUMP STATION UPGRADES RECOMMENDED PLAN

- Other Pump Stations
  - Addition of telemetry at Cascade Street, River Street, and Maple Street



# PUMP STATION UPGRADES

## FINANCIAL SUMMARY

- Funding Sources
  - State SRF Loan (2%, 20 Years): \$1,257,000
- Total Bond Amount: \$1,257,000
- Annual Loan Payment: \$75,043

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## IMPACT TO VILLAGE SEWER RATES

- **\$0 increase**
  - Previous sewer system rehab project received ARRA stimulus funding, reducing overall costs.
  - It is expected that this work can be funded under the current budget without increasing rates.

# PUMP STATION UPGRADES TIMELINE

Date		Task
2011	April 12	Conduct bond vote
	May	Begin final design and permitting
	December	Advertise for bids
2012	January	Open bids
	April	Begin construction
2013	March	Complete construction