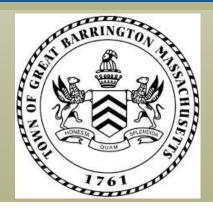
Opinion of Value, Costs & Capital Implementation Alternatives for the Housatonic Water Works

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August 9, 2021 at 6:00 PM Selectboard Meeting Town of Great Barrington





TONIGHT'S TOPICS

- Project Purpose & Scope
- Key Sources of Information
- Value of HWW System
- Capital Implementation Alternatives
- Possible Next Steps
- Questions & Discussion



Project Purpose & Scope

- Review of Available Information
- Estimate Value of HWW System
- Capital Implementation Alternatives
 - #1, HWW as Standalone Utility
 - #2, HWW as Combined Utility with GBFD
- Summarize Opinions of Estimated Value,
 CIP Exposure, Management Risk and
 Possible Next Steps



How Do Residents Get Their Water?

- Housatonic Water Works (surface water)
 - Private Utility
 - Smaller Customer Base
- Great Barrington Fire District (groundwater)
 - Private (Semi-Public) Utility
 - Larger Customer Base
- Private Wells



Key Sources of Information

- Past Planning Documents
 - 2017 Preliminary Evaluation of HWW January 2016 Master Plan (DPC Engineering)
 - 2017 Massachusetts Water Rates Survey (Tighe & Bond)
 - 2018 Conceptual Water Systems Management Framework Public Presentation (DPC Engineering)
 - 2021 HWW Water System Evaluation Report (AECOM)
- This Project is comprised of Engineering opinions and is <u>not</u> a formal appraisal of value



- 1. Opinion of current-day costs to construct assets
- 2. Convert to past-day costs (using dates of installation)
- 3. Past-day costs depreciated to current-day value
- 4. Compare current-day depreciated costs to estimated capital needs (net-value)



1. Current-Day Costs to Construct Assets

Component	Current-Day OPPC
Supply / Treatment	\$5.6M
Storage	\$3.0M
Distribution	\$46.4M
TOTAL =	\$55.0M



2. Convert to Past-Day Costs

Component	OPPC (constructed today)	Average Year Installed	Past-Day OPPC
Supply / Treatment	\$5.6M	1939 & 1997	\$1.7M
Storage	\$3.0M	1997	\$1.5M
Distribution	\$46.4M	1958	\$13.9M
TOTAL =	\$55.0M	-	\$17.1M



3. Past-Day Costs Depreciated to Current-Day

Component	OPPC (past- day costs)	Estimated Design Life	OPPC (Depreciated Value)
Supply / Treatment	\$1.7M	50 years	\$0.5M
Storage	\$1.5M	50 years	\$0.4M
Distribution	\$13.9M	100 years	\$4.9M
TOTAL =	\$17.1M	-	\$5.8M



Estimated Value of HWW System (HWW as Standalone Utility)

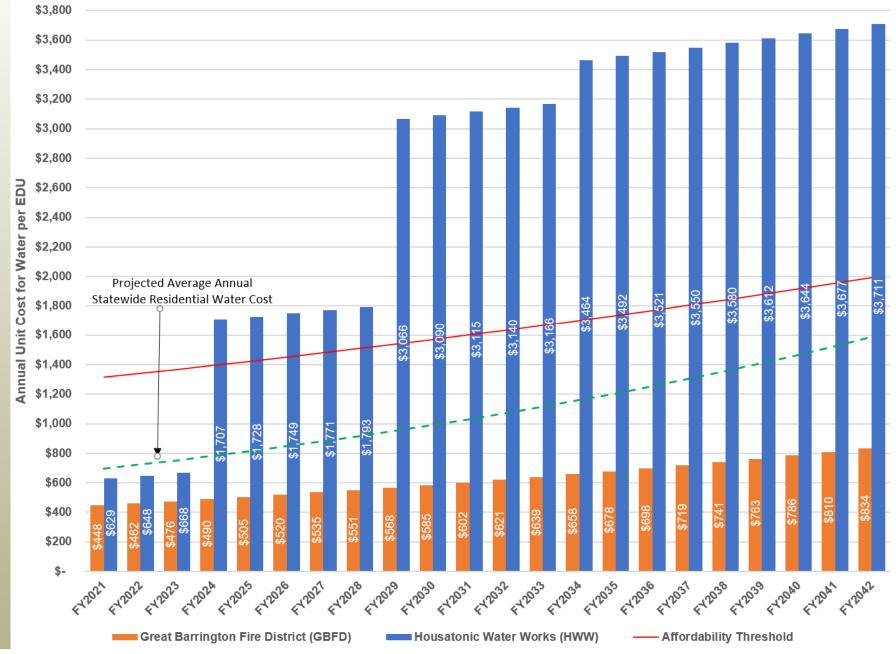
4. Estimated Current-Day Net-Value

Component	Depreciated Value	Capital Improvements Plan (AECOM)	Estimated Current-Day Net-Value
Supply / Treatment	\$0.5M	(\$3.6M)	(\$3.1M)
Storage	\$0.4M	(\$0.1M)	\$0.3M
Distribution	\$4.9M	(\$27.3M)	(\$22.4M)
TOTAL =	\$5.8M	(\$31.0M)	(\$25.2M)*

^{*}Estimated current-day net-value is a negative value



Capital Implementation Alternative #1 HWW as Standalone Utility



Estimated Value of HWW System (HWW as Combined Utility with GBFD)

Estimated Current-Day Net-Value

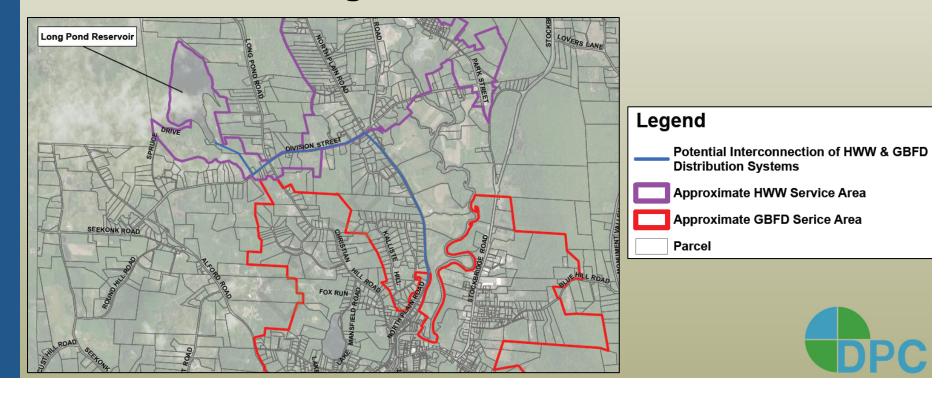
Component	Depreciated Value	Capital Improvements Plan (AECOM)	Estimated Current-Day Net-Value
Supply / Treatment	\$0.5M	(\$3.6M)	(\$3.1M)
Redundant Supply & Conveyance	\$0.0M	(\$10.0M)	(\$10.0M)
Storage	\$0.4M	(\$0.1M)	\$0.3M
Distribution	\$4.9M	(\$27.3M)	(\$22.4M)
TOTAL =	\$5.8M	(\$41.0M)	(\$35.2M)*

^{*}Estimated current-day net-value is a negative value

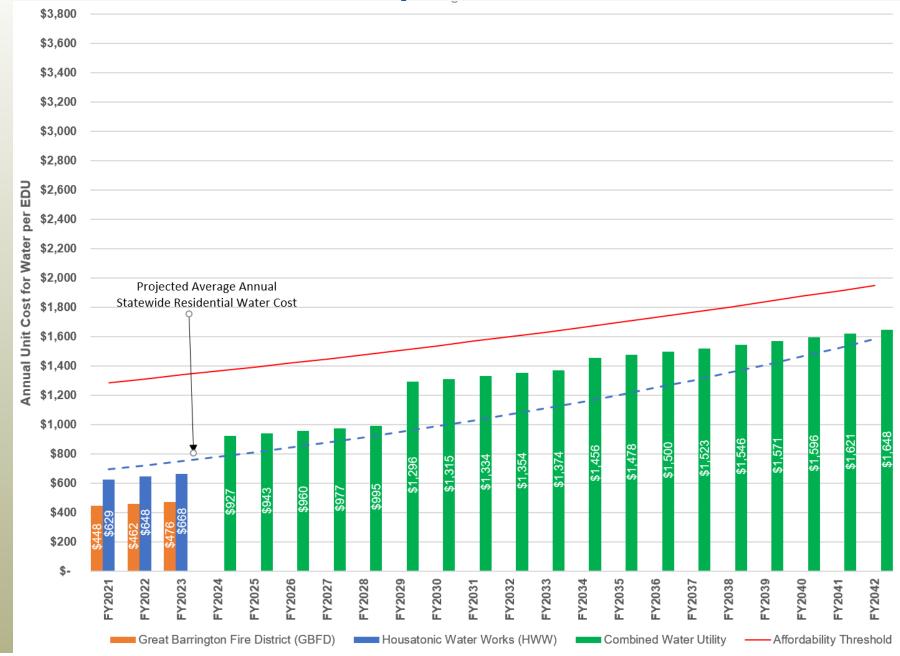


Capital Implementation Alternative #2 HWW as Combined Utility with GBFD

- Same Current Net-Value of HWW System, with additional Capital Improvements for:
 - Inter-Connection Pipes to GBFD
 - Pressure Regulation and Booster Station



Capital Implementation Alternative #2 HWW as Combined Utility with GBFD



Conclusions & Observations

- Value
 - Planned CIP <u>exceeds</u> estimated current-day net-value of HWW System
- Capital Implementation Alternative #1
 - Net annual cost per EDU not sustainable for HWW alone if capital plan is implemented
- Capital Implementation Alternative #2
 - Net annual cost per EDU more sustainable/affordable for HWW users
 - Increased net annual costs for GBFD users



Possible Next Steps

- Town to consider management alternatives
- Public input following this presentation
- Follow-up discussions with Town, DPW, HWW & GBFD
- Confirm Town's anticipated level of involvement
- Input from Legal, MassDEP, permitting, etc.
- Hydraulic & water quality analyses
- Revisit recommendations and refine implementation plan



Questions & Discussion



