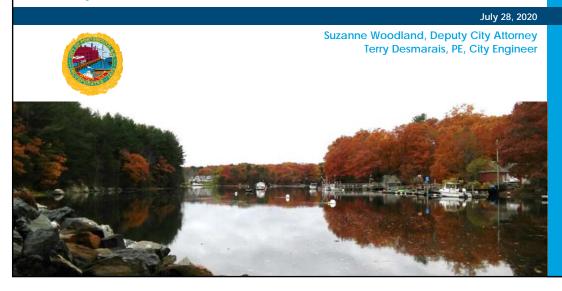
# Sagamore Avenue Sewer Extension City Council Work Session

City of Portsmouth, NH



# **Agenda**

- Important Project Points
- Current Project Limits and Costs
- Key Decision Items
- Alternative Project Limits
- Questionnaire Results
- Decision Points Summary
- Recommendations on Other Items
- Next Steps



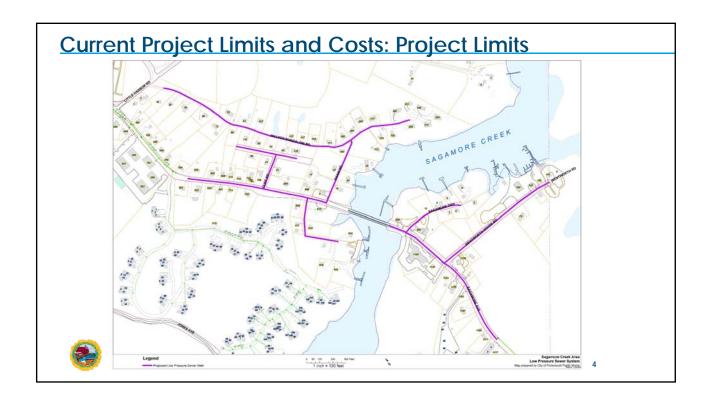
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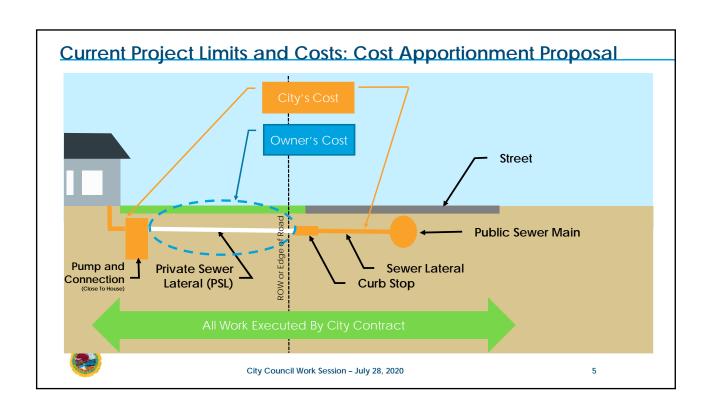
# **Important Project Points**

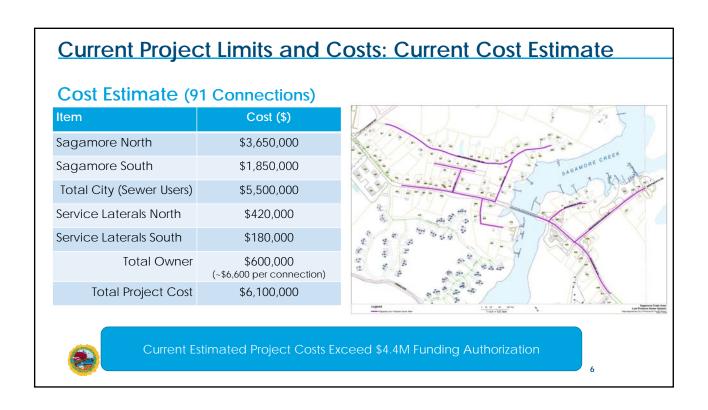
- Low Pressure Type Sewer System
- Property Owners Will NOT Be Required To Tie-In If They Have A Functioning Septic System
- Property Owners Will Have To Tie-In If Their Septic System Fails
- City Council Authorized \$4.4 Million In July 2019

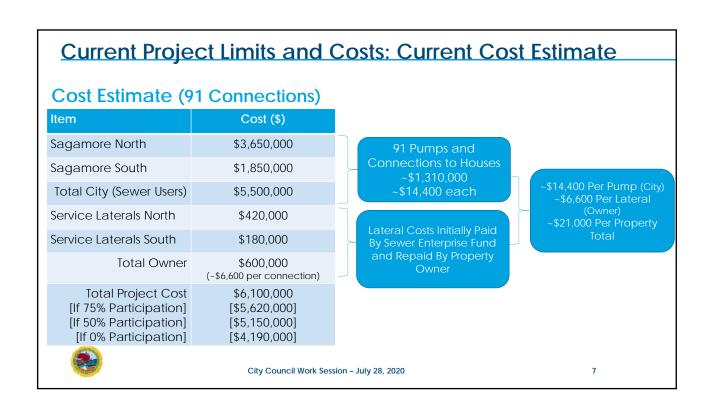


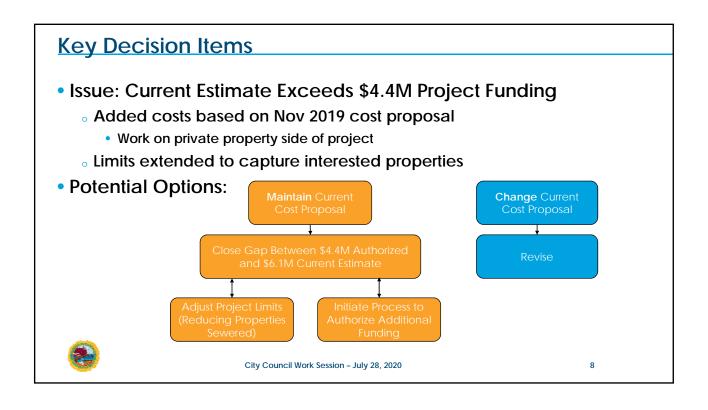
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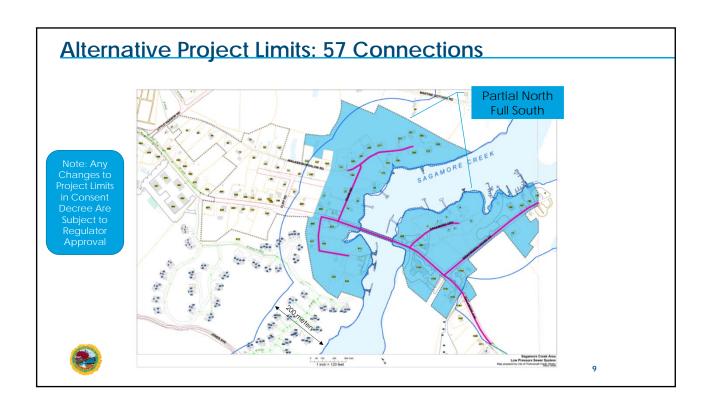


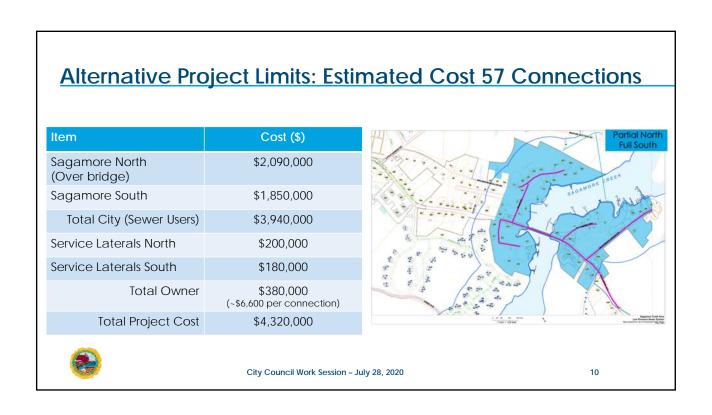












Item	Cost (\$)	
Sagamore North (Over bridge)	\$2,090,000	57 Pumps and
Sagamore South	\$1,850,000	Connection to House
Total City (Sewer Users)	\$3,940,000	
Service Laterals North	\$200,000	~\$6,600 Per La (Owner)
Service Laterals South	\$180,000	Lateral Costs Initially  Paid By Sewer  - \$21,000 Per Pro  Total
Total Owner	\$380,000 (~\$6,600 per connection)	Enterprise Fund and Repaid By Property Owner
Total Project Cost [If 75% Participation] [If 50% Participation] [If 0% Participation]	\$4,320,000 [\$4,020,000] [\$3,720,000] [\$3,120,000]	- Switch
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## **Questionnaire Results**

### **Details**

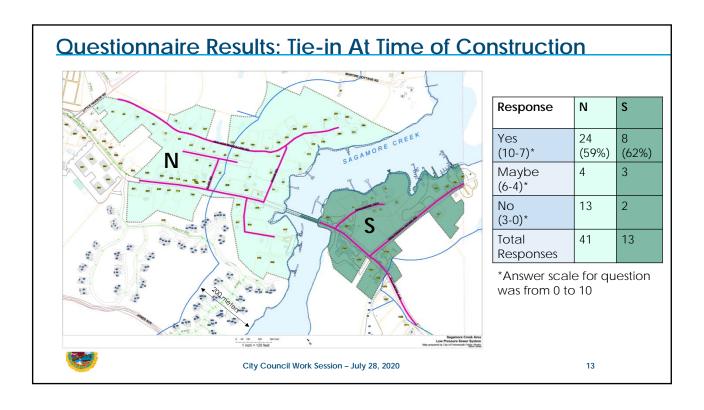
- Distributed April 2020
- 88 mailed, 56 returned
- 64% Response Rate
- Questions Answered Based On November 2019 Cost Proposal

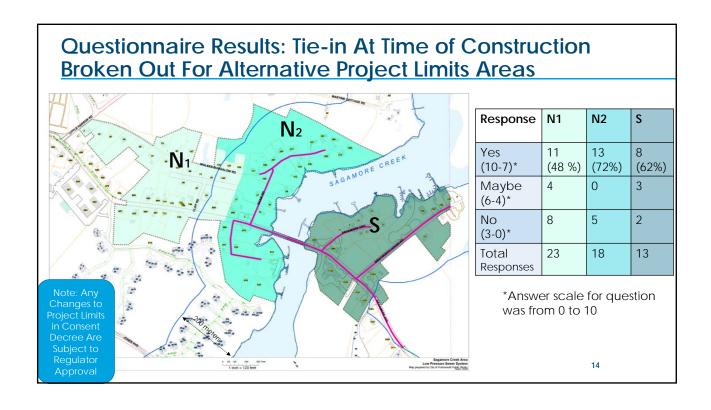
### Questions

- 1. Will You Tie-in at Time of Construction
- 2. How Old is Existing Septic System
- 3. Condition of Existing Septic System
- 4. How Frequently is Septic Tank Pumped
- 5. When is Replacement Anticipated
- 6. Does Septic System Have a Pump
- 7. Does Septic System Have Aeration
- 8. Does Property Have Radon Mitigation
- Does Property Have Finished Basement
- Does Property Have Basement Plumbing

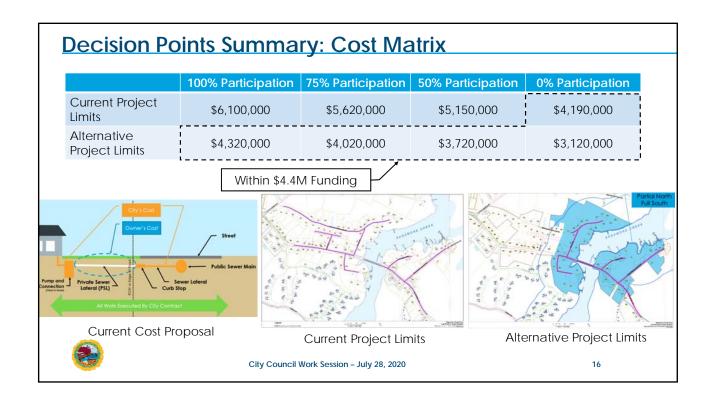


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estionnaire Results: Majority Answers			
Question	Majority Answer	% of Total	
1. Will You Tie-in at Time of Construction	Yes (7 to 10)	59	
2. How Old is Existing Septic System	Greater Than 15 Years	46	
3. Condition of Existing Septic System	Very Good	41	
4. How Frequently is Septic Tank Pumped	Every 2 Years	56	
5. When is Replacement Anticipated	Over 20 Years	25	
6. Does Septic System Have a Pump	No	63	
7. Does Septic System Have Aeration	No	68	
8. Does Property Have Radon Mitigation	No	71	
9. Does Property Have Finished Basement	No	43	
10. Does Property Have Basement Plumbing	No	59	
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### **Recommendations On Other Items**

Operation And Maintenance Of E-One Pump System

Recommendation: Owner responsibility

Replacement Of E-One Pump At End Of Life

Recommendation: Owner responsibility

Connections At A Later Date

Recommendation: Owner responsibility

Outstanding Loan Obligations

Recommendation: Repaid at sale of property

To take a different approach would require a significant change to ordinance, billing, rate structure, and budget

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# Recommendations On Other Items: Radon Gas Testing

- Odorless, Colorless Gas that Originates from Rock
  - Regulated action level is 4.0 picocurie per liter (pCi/L)
  - No Testing Conducted at Properties with Existing Radon Mitigation Systems
- Testing for Properties without Radon Mitigation Systems
  - Pre-blast radon testing
  - Post-blast radon testing
- If Post-Blast Testing Shows Increase and is Above Action Level City to Install Mitigation System
- Radon Gas Testing Is Additional Project Cost



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# **Next Steps**

- Public Meeting August 11, 2020 Via Zoom
- Vote On Decision Points
  - <sub>o</sub> No later than August 31, 2020 City Council Meeting
- September 2020 January 2021 Permitting And Final Design
  - Requires access on private property for wetland flagging and survey
- February-April 2021 Bidding And Project Award
- April 2021 Begin Construction



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# Questions City Council Work Session - July 28, 2020