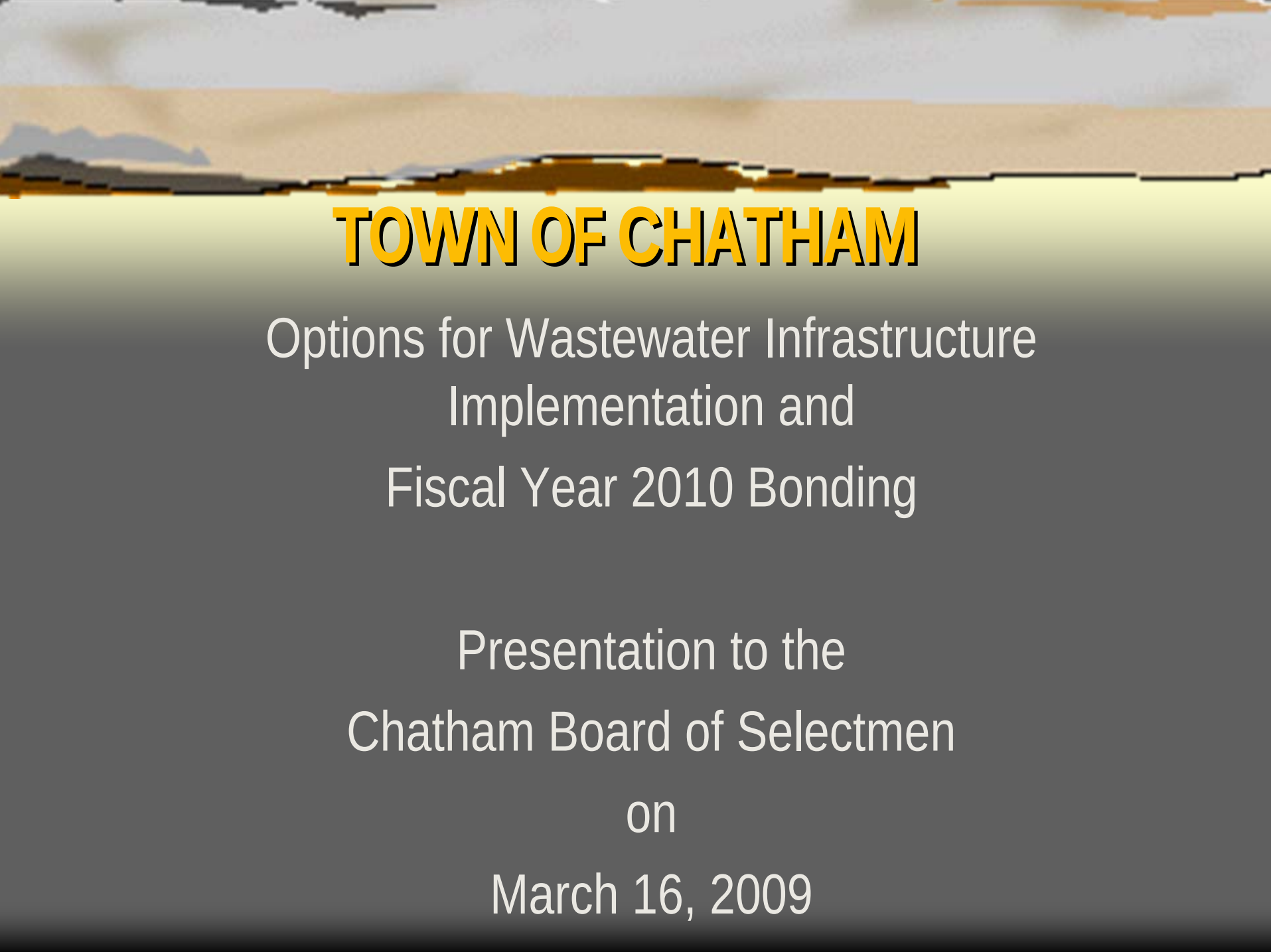




TOWN OF CHATHAM

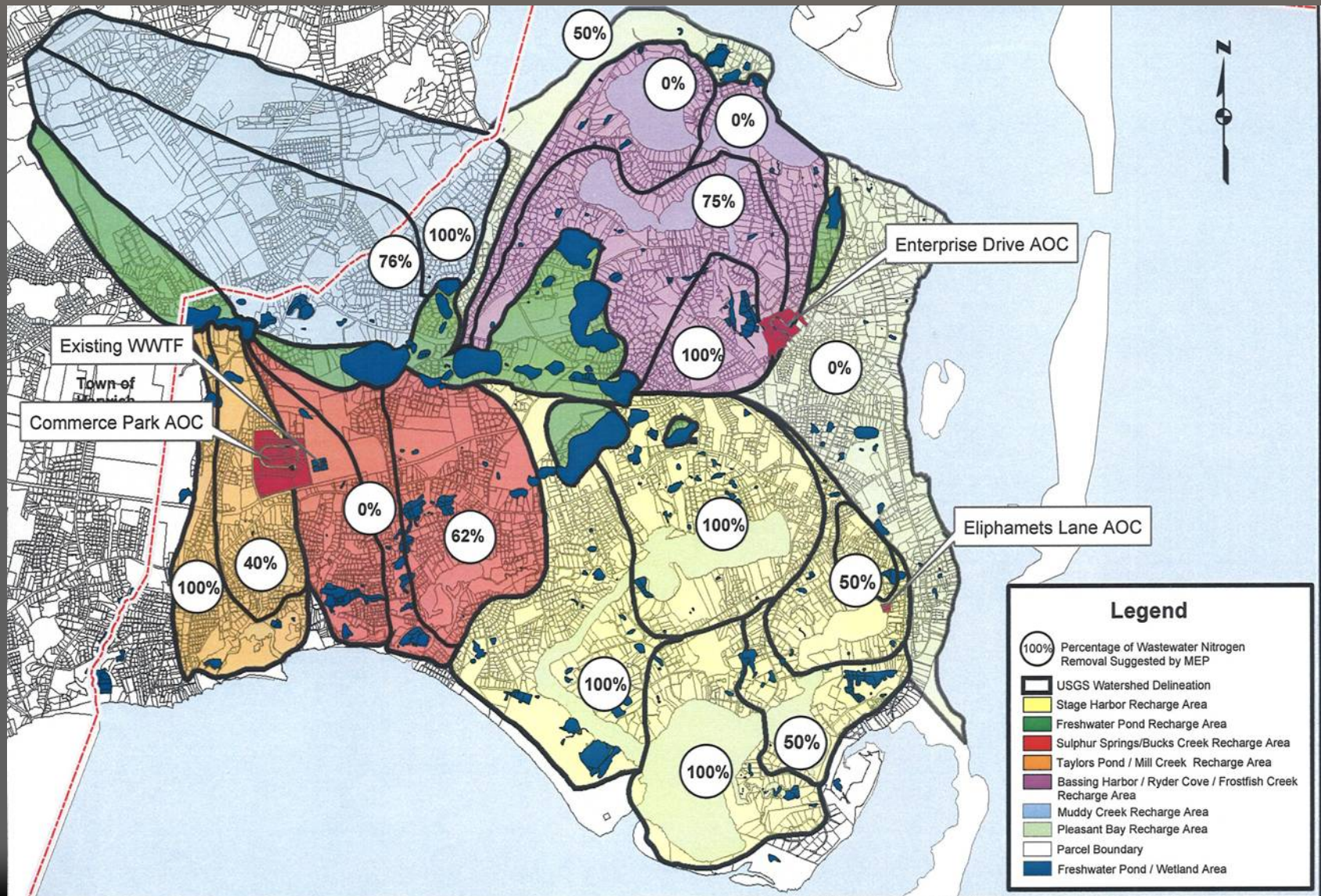
Options for Wastewater Infrastructure
Implementation and
Fiscal Year 2010 Bonding

Presentation to the
Chatham Board of Selectmen
on
March 16, 2009

Presentation Outline

- Overview of the Recommended Plan
- Funding Opportunities
- Options for FY 2010 Bonding to Maximize Stimulus Funds
- Options for Initial Implementation
- Potential Changes to the Tax Rate
- Questions and Discussion

Wastewater Need



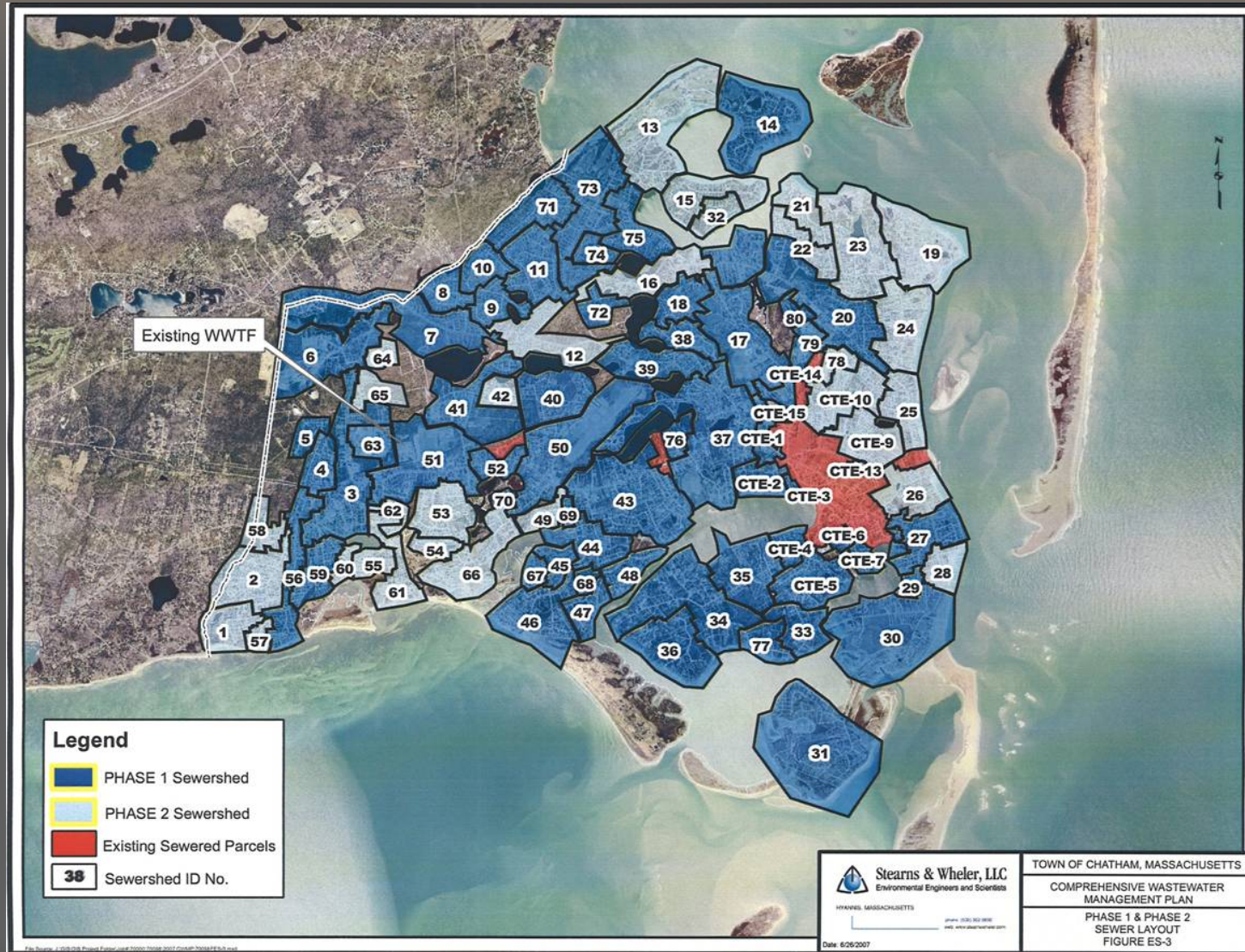
Alternatives Evaluation Summary:



Summary of Typical Nitrogen Removals for the Wastewater Management Options

Technology	Typical Percent Removal
Title 5 Septic System	23%
Individual Nitrogen Removal Septic System	50%
Community/Cluster System	75%
Upgraded Chatham WWTF	93%

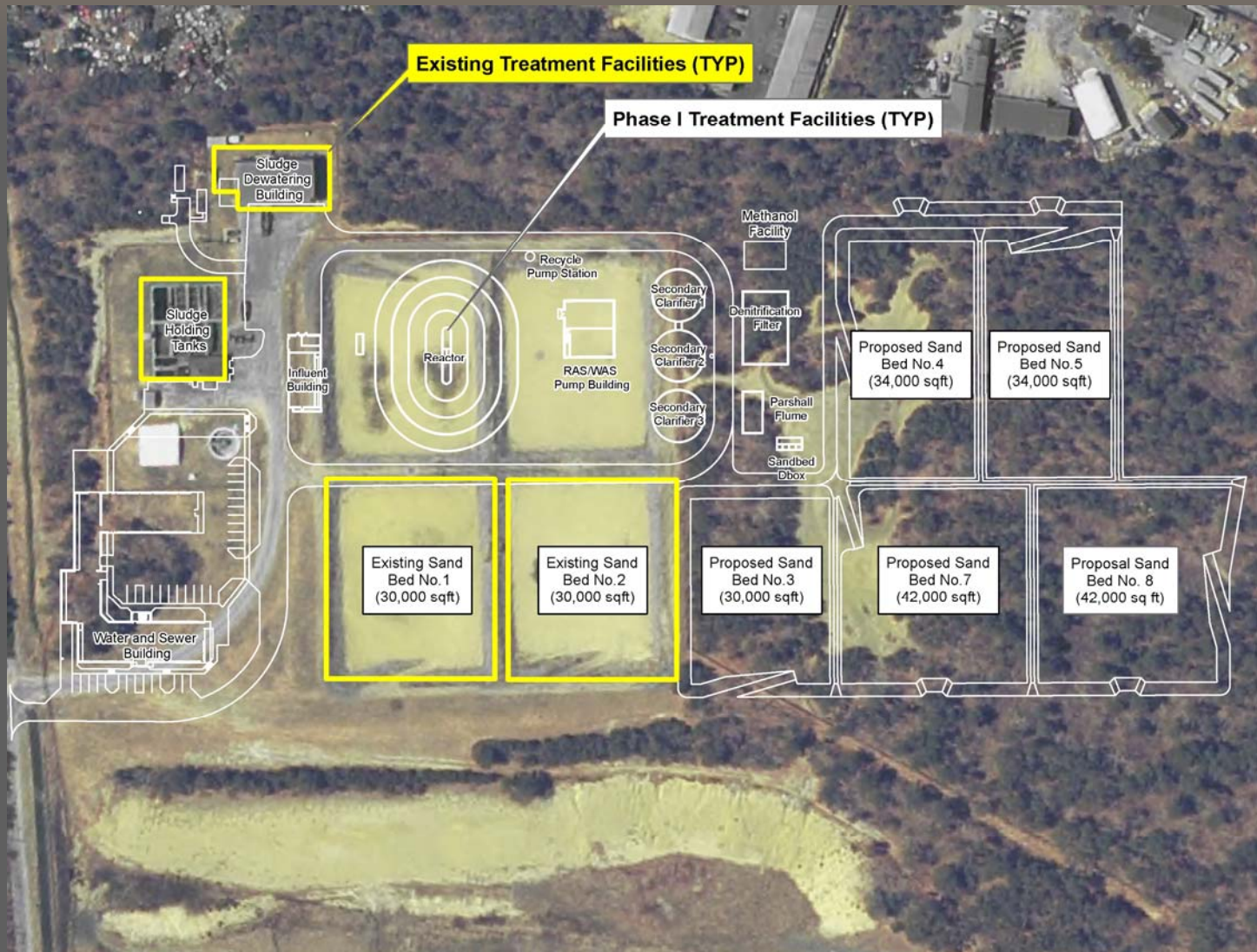
The Recommended Plan: Phase 1 and 2 Sewer Extension Areas



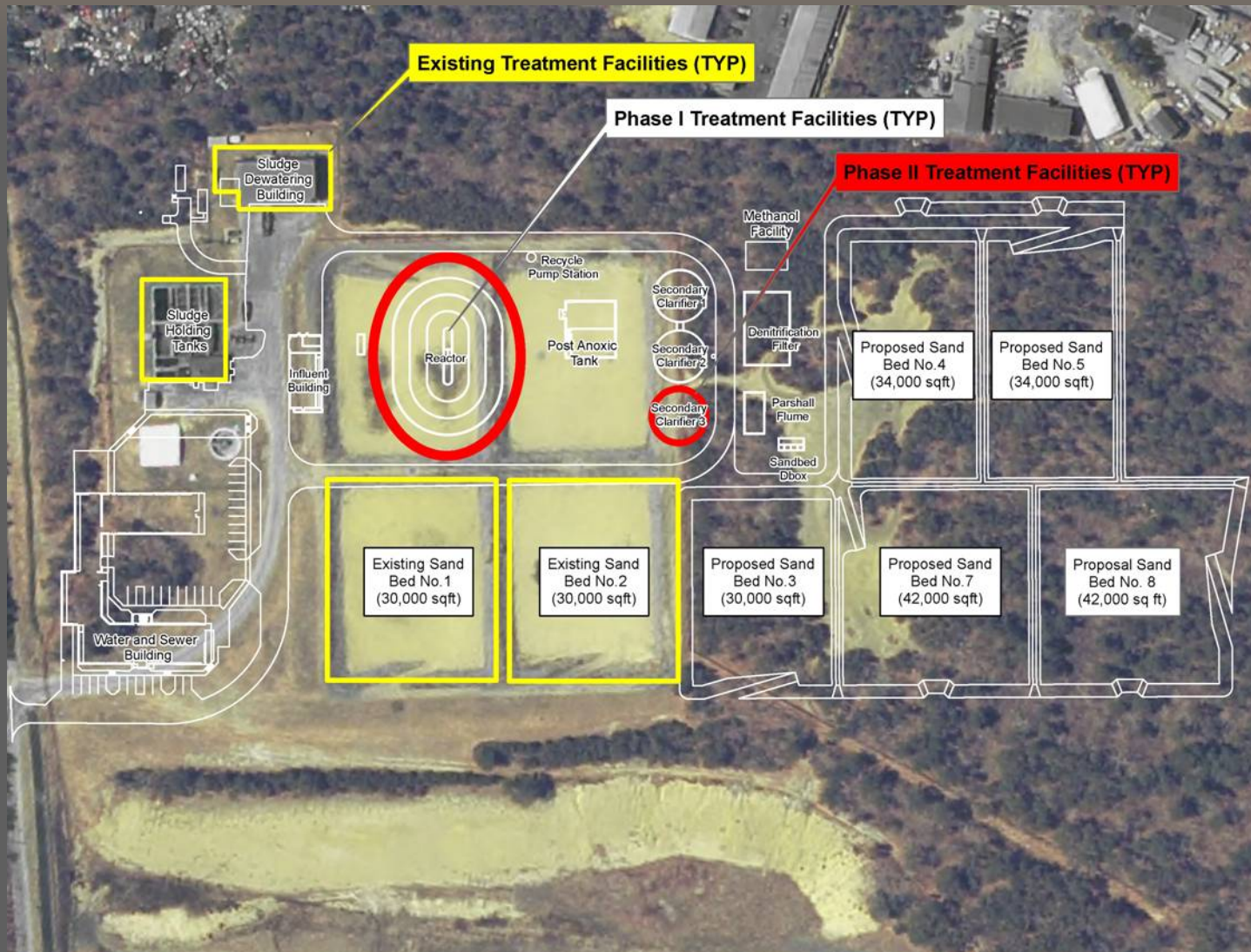
The Recommended Plan: Phase 1 and 2 WWTF Upgrades



The Recommended Plan: Phase 1 and 2 WWTF Upgrades



The Recommended Plan: Phase 1 and 2 WWTF Upgrades



Funding Opportunities

- 2 % State Revolving Fund (SRF) loan*
- 0 % SRF loan from Environmental Bond Act*
- 10 to 25 % Grants from Federal Stimulus Program** and the remaining in 0 % loans
- USDA Rural Utilities Program grant and low-interest loan package***

* up to \$55,600,000 over 3 year time period

** up to \$55,600,000 available only in 2009, and construction needs to be initiated by February 17, 2010

*** up to \$2,500,000

Options for FY 2010 Bonding

FY10 Wastewater Bond

					Existing Funding	Total
1	Lovers Lake & Stillwater Pond Remediation Supplemental		\$70,000	FY10 Bond	\$180,000	\$250,000
2	Force Mains Evaluation/Cleaning		\$125,000	FY10 Bond		
3	George Ryder Road*		\$5,524,000	FY10 Bond		
4	Harwich Flow Evaluation/IMA		\$113,000	FY10 Bond		
5	WWTF Final Design Supplemental		\$700,000	FY10 Bond	\$835,642	\$1,535,642
6	WWTF OPM (Design through GC Bidding)		\$1,000,000	FY10 Bond		
		Total	\$7,532,000			
7	WWTF Construction & Construction/Inspection Services**		\$37,000,000	STM		
8	WWTF Wind Turbine		\$2,000,000	STM		
		Total	\$39,000,000			
9	Collection System Phase 1 (OPM, Design, Construction)		\$15-20 M	ATM		

* includes PD/THA sewer connection (\$289,000), George Ryder Rd Infrastructure/FM connection (\$2,700,000), Animal Control building sewer connection (\$25,000), Barn Hill Rd area (\$660,000), CTE-4 (\$550,000) and CTE-1 (\$1,300,000)

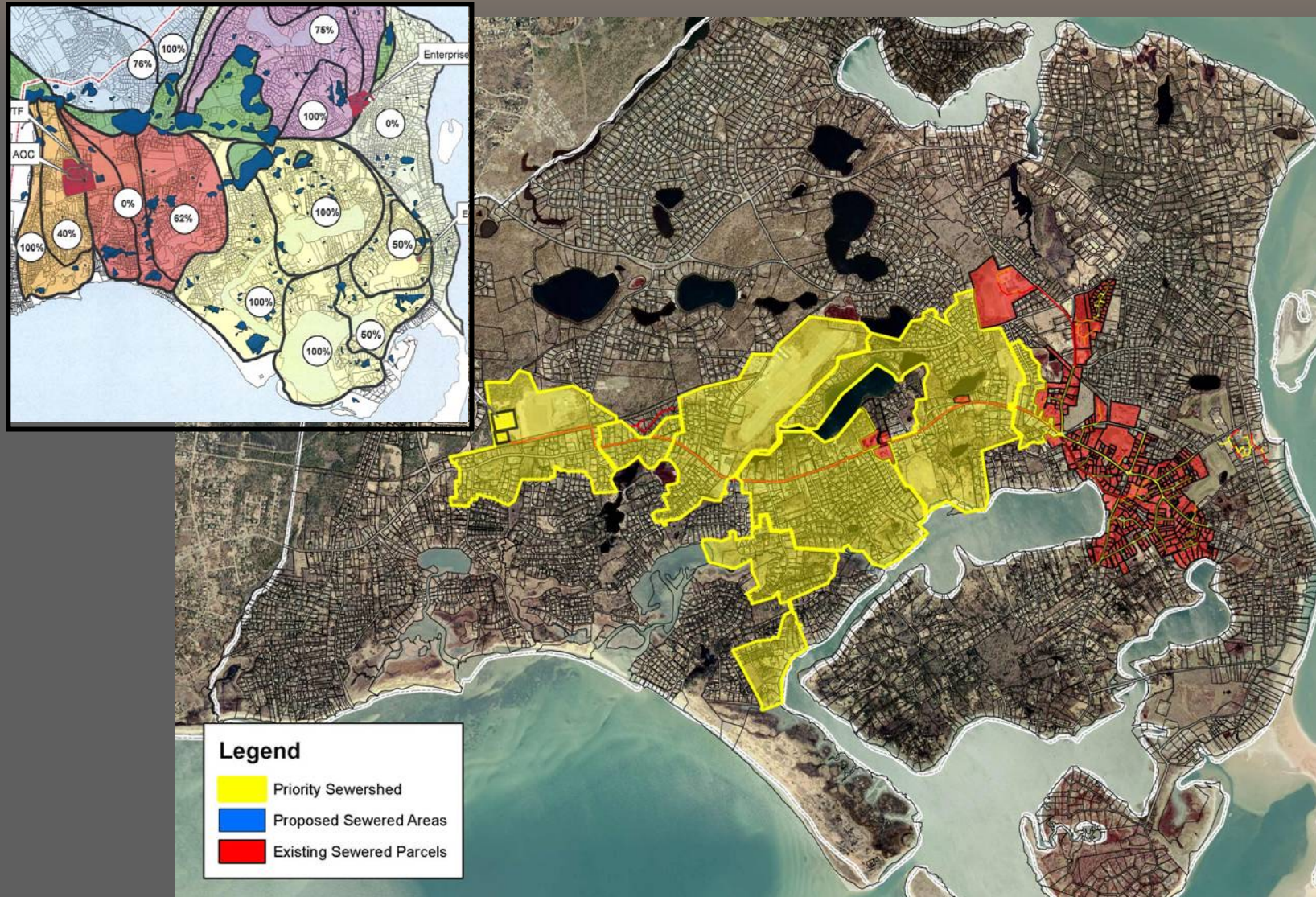
Options for Initial Implementation



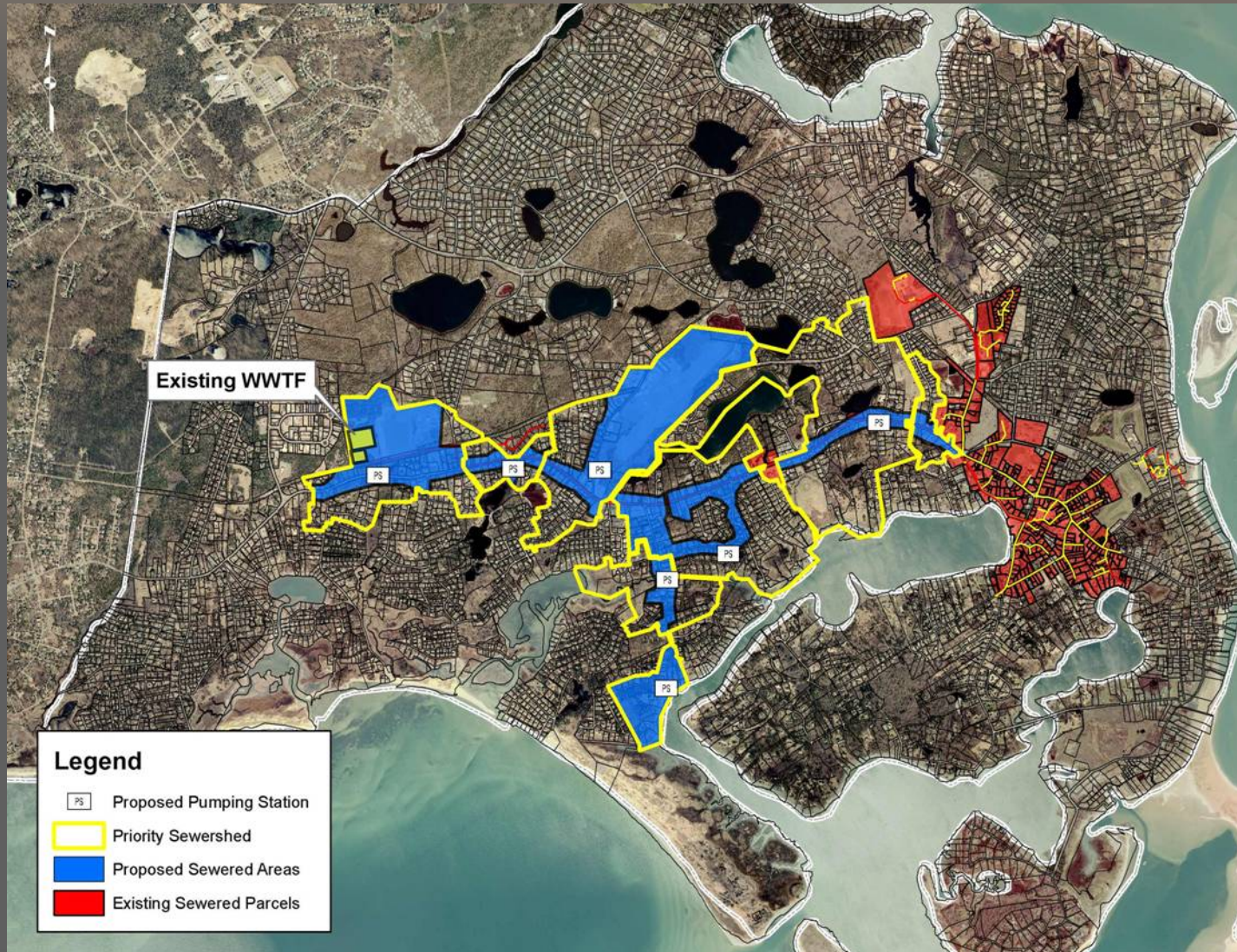
Options for Initial Implementation



Options for Initial Implementation



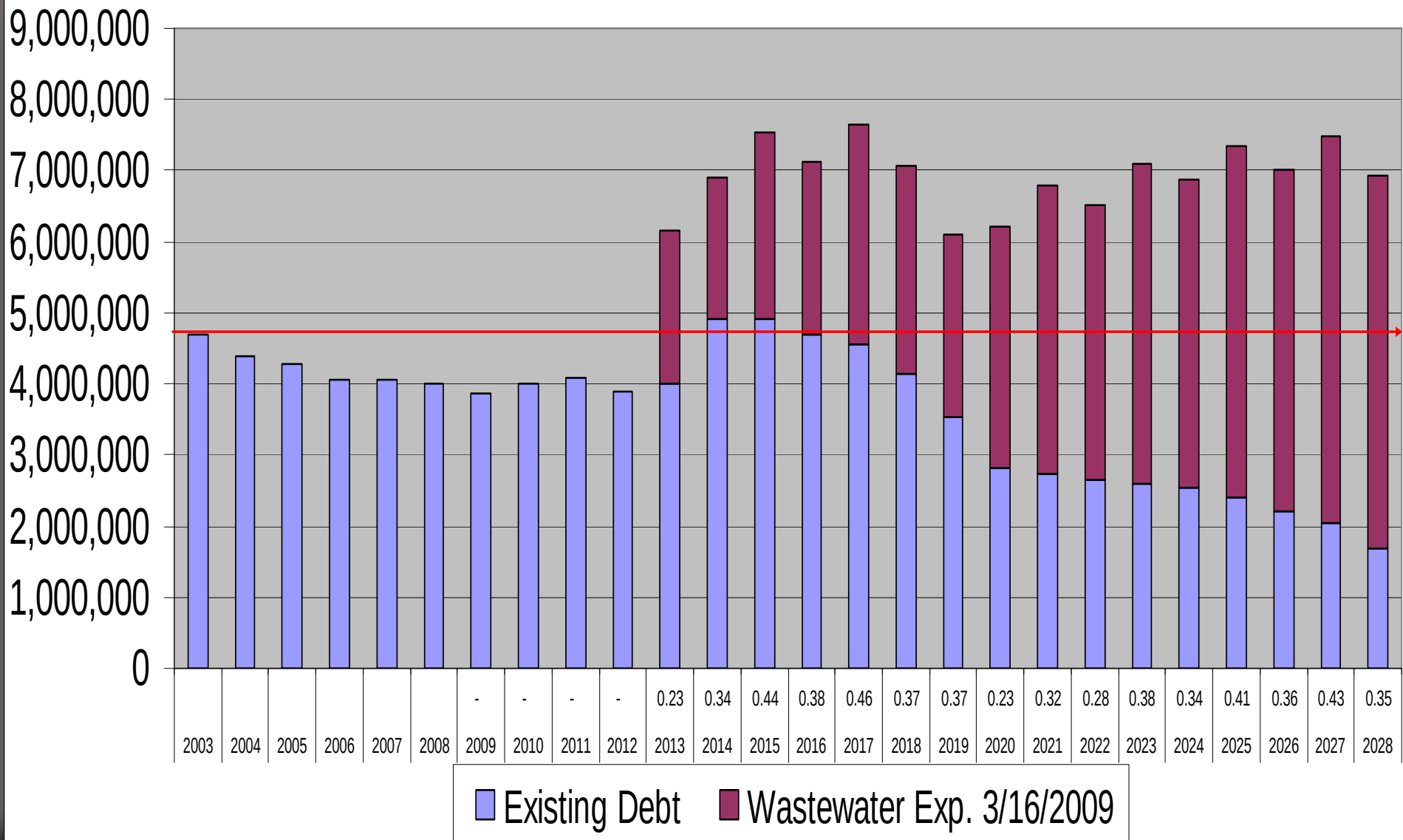
Options for Initial Implementation



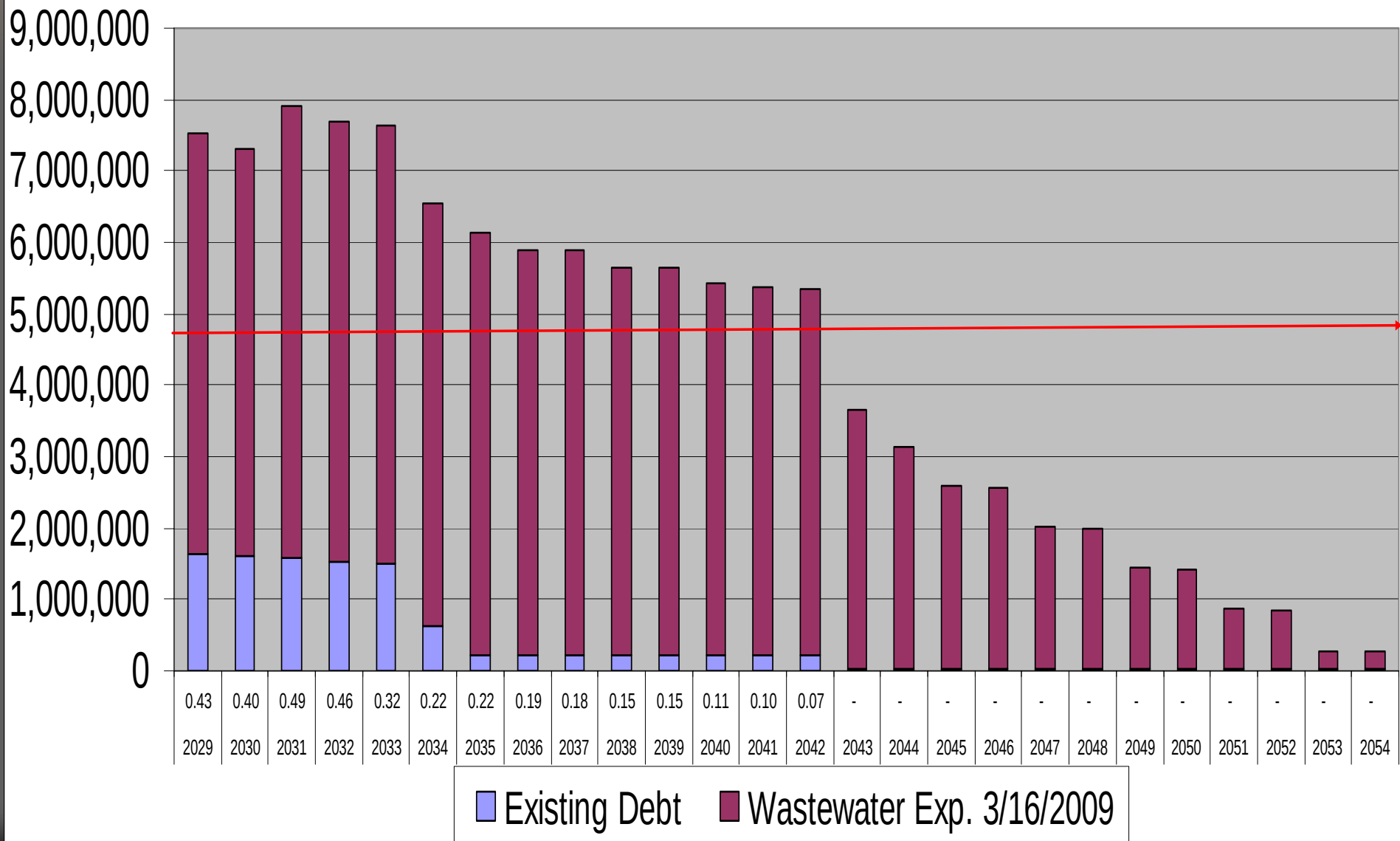
Options for FY2010 Bonding (Stimulus)

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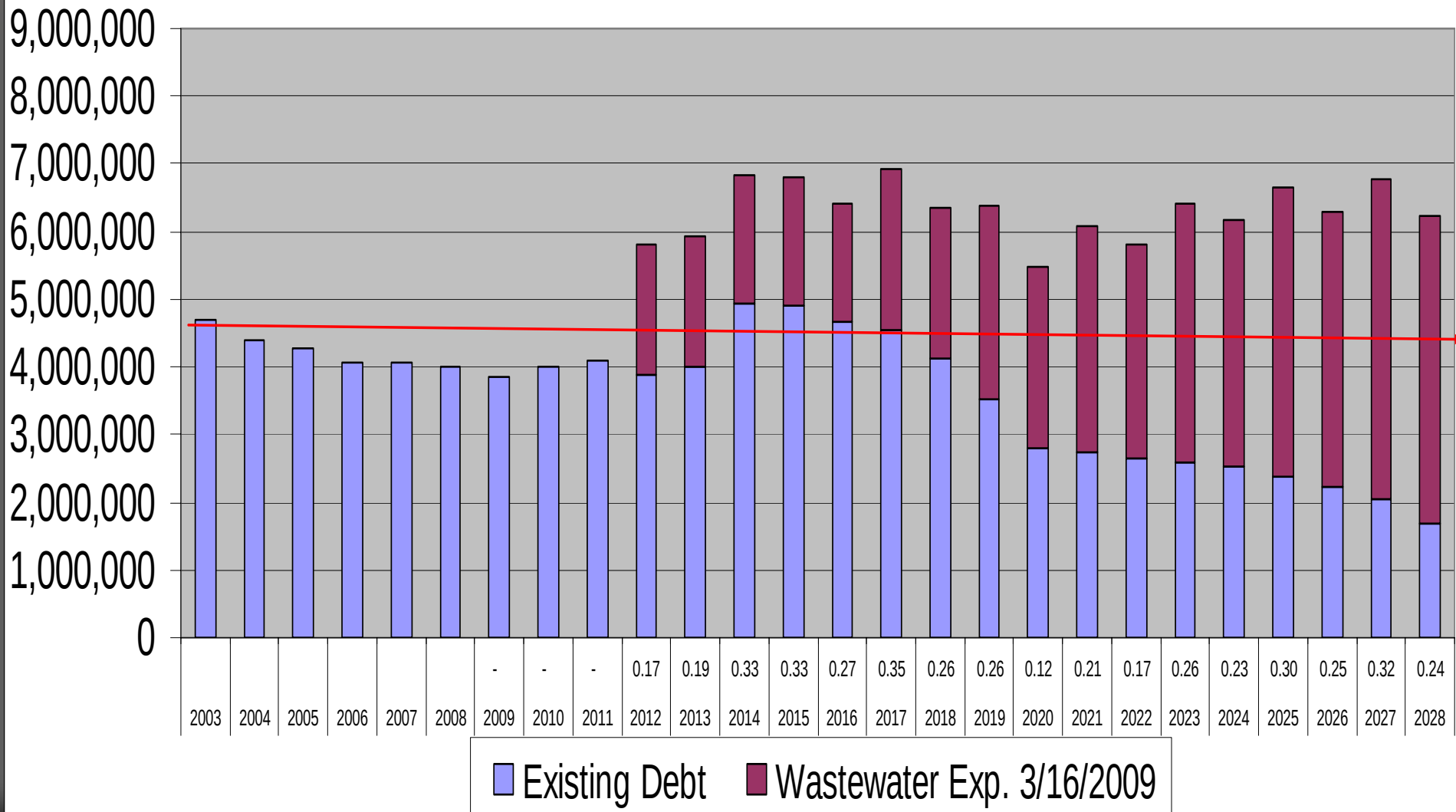
WASTEWATER EXPANSION FULL COST



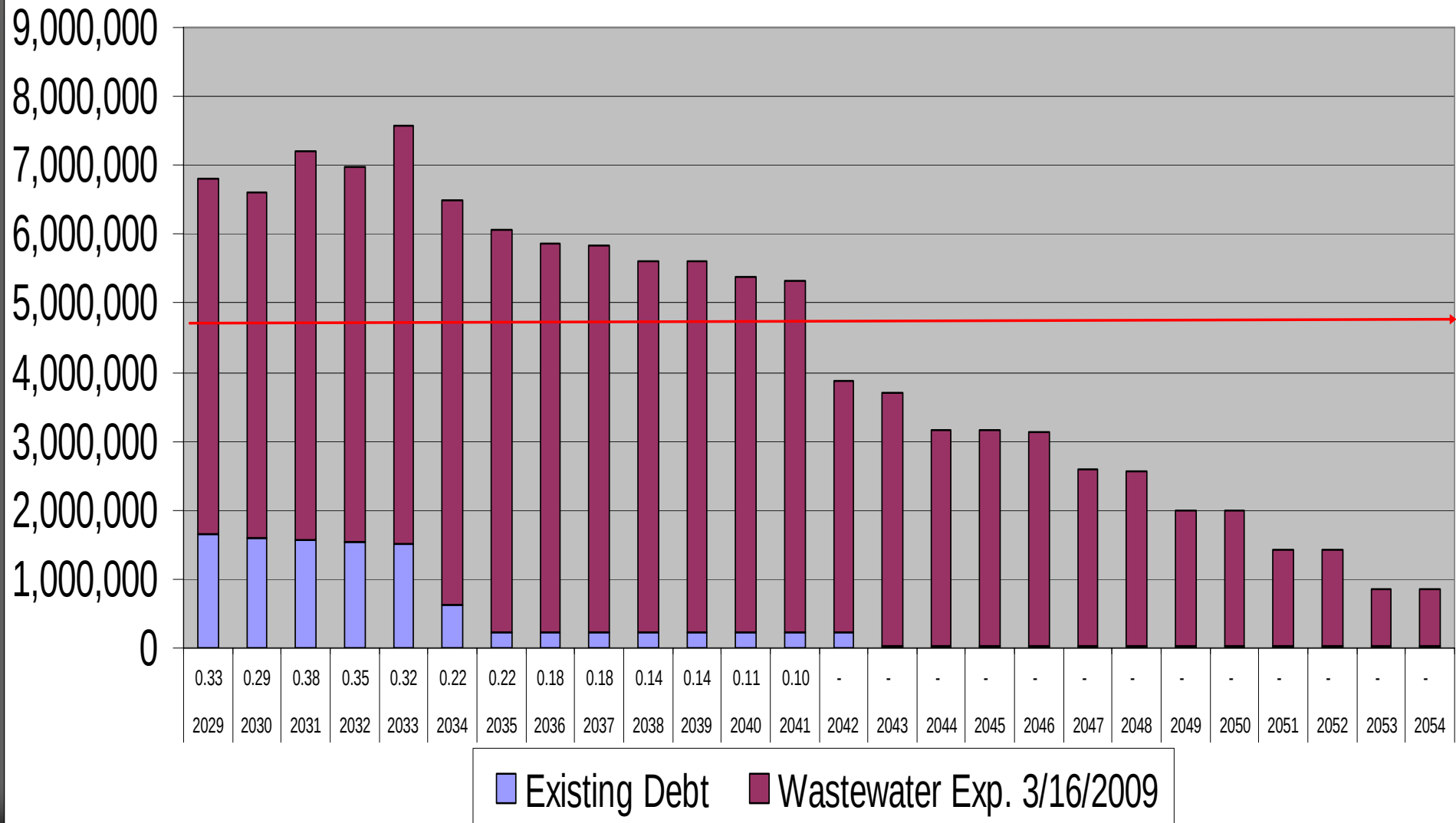
WASTEWATER EXPANSION FULL COST



WASTEWATER EXPANSION FULL COST WITH STIMULUS



WASTEWATER EXPANSION FULL COST WITH STIMULUS



Five Year Comparison

Based on \$600,000 Value Home

	Original Yr/Mo	Stimulus Yr/Mo
⇒ FY 12	0	\$120/\$10.00
⇒ FY 13	\$180/\$15	\$114/\$ 9.50
⇒ FY 14	\$204/\$17	\$198/\$16.50
⇒ FY 15	\$262/\$22	\$198/\$16.50
⇒ FY 16	\$228/\$19	\$162/\$13.50
⇒ FY 17	\$276/\$23	\$210/\$17.50

03/16/2009

QUESTIONS AND DISCUSSION

